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* Modified since 1999

** New tables in 2001

Table 1. Doctoral scientists and engineers, by field of doctorate and employment status: 2001

Field of doctorate	All fields	Employed			Unemployed/ seeking work	Retired	Not employed/ not seeking work
		Total	Full time	Part time			
All fields.....	656,550	574,890	528,350	46,540	7,570	59,050	15,040
Sciences.....	543,580	475,300	433,220	42,090	5,830	49,230	13,230
Computer and information sciences.....	11,230	10,780	10,310	470	140	100	220
Mathematical sciences.....	29,550	25,960	24,010	1,950	380	2,850	360
Biological and agricultural sciences.....	161,220	140,790	132,220	8,570	1,600	14,380	4,460
Agricultural/food sciences.....	19,870	16,950	16,180	770	240	2,400	290
Biological sciences.....	135,280	118,600	111,100	7,500	1,280	11,310	4,090
Environmental life sciences.....	6,070	5,240	4,950	300	80	670	80
Health sciences.....	23,700	21,390	19,450	1,940	110	1,720	490
Physical and related sciences.....	131,670	111,330	104,520	6,810	1,890	15,640	2,810
Chemistry except biochemistry.....	68,370	56,100	52,770	3,330	1,250	9,320	1,690
Earth/atmos/ocean sciences.....	19,190	16,590	15,340	1,250	250	1,950	410
Physics and astronomy.....	44,100	38,640	36,410	2,230	380	4,370	710
Social sciences.....	87,650	76,170	68,910	7,260	1,020	8,450	2,010
Economics.....	24,860	21,690	20,180	1,510	290	2,580	300
Political and related sciences.....	19,290	16,910	15,080	1,830	250	1,760	360
Sociology.....	16,130	13,710	12,200	1,510	120	1,920	370
Other social sciences.....	27,370	23,850	21,460	2,400	360	2,190	980
Psychology.....	98,560	88,890	73,800	15,090	690	6,100	2,880
Engineering.....	112,970	99,580	95,130	4,450	1,750	9,830	1,810
Aerospace/aeronautical engineering.....	4,620	4,040	3,850	190	S	470	80
Chemical engineering.....	15,950	13,630	12,890	740	240	1,760	310
Civil engineering.....	10,160	9,320	8,850	470	S	690	100
Electrical/computer engineering.....	30,490	27,050	26,020	1,030	540	2,360	530
Materials/metallurgical engineering.....	11,770	10,460	9,960	500	170	960	170
Mechanical engineering.....	14,310	12,670	12,220	450	220	1,190	220
Other engineering.....	25,680	22,410	21,330	1,070	480	2,400	390

KEY: S=Suppressed due to too few cases (fewer than 50 weighted cases).

NOTES: Numbers are rounded to nearest ten. Details may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 2. Doctoral scientists and engineers, by broad field of doctorate, employment status, and sex: 2001

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Employment status/field of doctorate	Total	Male	Female
All fields.....	656,550	490,230	166,320
Employed full time.....	528,350	402,660	125,690
Employed part time.....	46,540	25,120	21,420
Unemployed, seeking work.....	7,570	5,460	2,120
Retired.....	59,050	51,460	7,590
Not employed, not seeking work.....	15,040	5,540	9,490
Sciences.....	543,580	385,640	157,940
Employed full time.....	433,220	314,520	118,690
Employed part time.....	42,090	21,270	20,810
Unemployed, seeking work.....	5,830	3,840	1,990
Retired.....	49,230	41,700	7,520
Not employed, not seeking work.....	13,230	4,300	8,930
Computer and information sciences.....	11,230	9,370	1,860
Employed full time.....	10,310	8,740	1,570
Employed part time.....	470	320	150
Unemployed, seeking work.....	140	110	S
Retired.....	100	S	70
Not employed, not seeking work.....	220	160	60
Mathematical sciences.....	29,550	25,140	4,410
Employed full time.....	24,010	20,670	3,340
Employed part time.....	1,950	1,450	500
Unemployed, seeking work.....	380	310	70
Retired.....	2,850	2,580	260
Not employed, not seeking work.....	360	130	240
Biological and agricultural sciences.....	161,220	114,780	46,440
Employed full time.....	132,220	95,510	36,720
Employed part time.....	8,570	4,570	4,000
Unemployed, seeking work.....	1,600	1,090	510
Retired.....	14,380	12,190	2,180
Not employed, not seeking work.....	4,460	1,420	3,040

See explanatory information and SOURCE at end of table.

Table 2. Doctoral scientists and engineers, by broad field of doctorate, employment status, and sex: 2001

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Employment status/field of doctorate	Total	Male	Female
Health sciences.....	23,700	10,390	13,310
Employed full time.....	19,450	8,680	10,770
Employed part time.....	1,940	560	1,380
Unemployed, seeking work.....	110	S	100
Retired.....	1,720	1,040	680
Not employed, not seeking work.....	490	100	390
Physical and related sciences.....	131,670	113,870	17,790
Employed full time.....	104,520	90,710	13,810
Employed part time.....	6,810	5,410	1,400
Unemployed, seeking work.....	1,890	1,520	370
Retired.....	15,640	14,840	800
Not employed, not seeking work.....	2,810	1,390	1,420
Social sciences.....	87,650	60,740	26,910
Employed full time.....	68,910	48,100	20,820
Employed part time.....	7,260	4,340	2,920
Unemployed, seeking work.....	1,020	590	440
Retired.....	8,450	7,080	1,370
Not employed, not seeking work.....	2,010	640	1,370
Psychology.....	98,560	51,340	47,220
Employed full time.....	73,800	42,120	31,680
Employed part time.....	15,090	4,620	10,470
Unemployed, seeking work.....	690	210	490
Retired.....	6,100	3,940	2,160
Not employed, not seeking work.....	2,880	460	2,420
Engineering.....	112,970	104,600	8,370
Employed full time.....	95,130	88,130	7,000
Employed part time.....	4,450	3,840	610
Unemployed, seeking work.....	1,750	1,620	130
Retired.....	9,830	9,750	70
Not employed, not seeking work.....	1,810	1,250	560

KEY: S=Suppressed due to too few cases (fewer than 50 weighted cases). Details may not add to total because of rounding.**NOTES:** Numbers are rounded to nearest ten. Details may not add to total because of rounding.**SOURCE:** National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 3. Doctoral scientists and engineers, by broad field of doctorate, employment status, and race/ethnicity: 2001

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Employment status/field of doctorate	Total	White ¹	Black	Asian/Pacific Islander	Hispanic	American Indian/Alaskan Native
All fields.....	656,550	526,900	16,060	95,120	16,410	2,060
Employed full time.....	528,350	414,000	13,900	84,890	13,830	1,730
Employed part time.....	46,540	41,220	1,140	2,880	1,190	100
Unemployed, seeking work.....	7,570	5,550	170	1,600	220	S
Retired.....	59,050	54,050	600	3,500	740	150
Not employed, not seeking work.....	15,040	12,080	250	2,240	430	S
Sciences.....	543,580	451,760	14,180	61,580	14,190	1,860
Employed full time.....	433,220	353,630	12,170	53,990	11,860	1,560
Employed part time.....	42,090	37,410	1,050	2,380	1,140	100
Unemployed, seeking work.....	5,830	4,350	130	1,100	210	S
Retired.....	49,230	45,500	590	2,380	610	140
Not employed, not seeking work.....	13,230	10,860	230	1,730	370	S
Computer and information sciences.....	11,230	7,300	220	3,440	260	S
Employed full time.....	10,310	6,590	220	3,230	260	S
Employed part time.....	470	410	S	60	S	S
Unemployed, seeking work.....	140	120	S	S	S	S
Retired.....	100	70	S	S	S	S
Not employed, not seeking work.....	220	120	S	110	S	S
Mathematical sciences.....	29,550	23,210	470	5,010	830	S
Employed full time.....	24,010	18,410	420	4,460	690	S
Employed part time.....	1,950	1,650	S	260	S	S
Unemployed, seeking work.....	380	360	S	S	S	S
Retired.....	2,850	2,460	S	270	100	S
Not employed, not seeking work.....	360	330	S	S	S	S
Biological and agricultural sciences.....	161,220	132,460	3,160	21,190	3,980	430
Employed full time.....	132,220	107,010	2,740	18,760	3,360	350
Employed part time.....	8,570	7,580	140	600	250	S
Unemployed, seeking work.....	1,600	1,110	S	320	100	S
Retired.....	14,380	13,280	170	700	180	S
Not employed, not seeking work.....	4,460	3,470	80	810	90	S

See explanatory information and SOURCE at end of table.

Table 3. Doctoral scientists and engineers, by broad field of doctorate, employment status, and race/ethnicity: 2001

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Employment status/field of doctorate	All fields	White ¹	Black	Asian/Pacific Islander	Hispanic	American Indian/Alaskan Native
Health sciences.....	23,700	19,410	1,140	2,360	680	110
Employed full time.....	19,450	15,680	1,020	2,040	610	100
Employed part time.....	1,940	1,700	90	100	S	S
Unemployed, seeking work.....	110	80	S	S	S	S
Retired.....	1,720	1,550	S	130	S	S
Not employed, not seeking work.....	490	390	S	80	S	S
Physical and related sciences.....	131,670	106,850	1,690	20,200	2,580	350
Employed full time.....	104,520	82,400	1,630	17,850	2,320	310
Employed part time.....	6,810	6,130	S	580	70	S
Unemployed, seeking work.....	1,890	1,320	S	530	S	S
Retired.....	15,640	14,780	S	740	70	S
Not employed, not seeking work.....	2,810	2,220	S	490	90	S
Social sciences.....	87,650	73,470	3,980	6,950	2,750	490
Employed full time.....	68,910	57,360	3,070	5,800	2,330	360
Employed part time.....	7,260	6,070	480	470	180	50
Unemployed, seeking work.....	1,020	820	50	110	S	S
Retired.....	8,450	7,520	290	460	110	60
Not employed, not seeking work.....	2,010	1,710	90	110	100	S
Psychology.....	98,560	89,060	3,510	2,430	3,110	440
Employed full time.....	73,800	66,180	3,070	1,860	2,290	400
Employed part time.....	15,090	13,880	310	310	570	S
Unemployed, seeking work.....	690	550	S	100	S	S
Retired.....	6,100	5,840	80	60	120	S
Not employed, not seeking work.....	2,880	2,620	60	100	90	S
Engineering.....	112,970	75,130	1,880	33,530	2,220	200
Employed full time.....	95,130	60,370	1,730	30,900	1,960	180
Employed part time.....	4,450	3,800	90	500	50	S
Unemployed, seeking work.....	1,750	1,190	S	500	S	S
Retired.....	9,830	8,550	S	1,120	130	S
Not employed, not seeking work.....	1,810	1,220	S	520	60	S

¹ 'Other' race included with 'white'.

KEY: S=Suppressed due to too few cases (fewer than 50 weighted cases).

NOTES: The race/ethnicity data shown are for all doctoral recipients, including temporary residents. Numbers are rounded to nearest ten.
Details may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 4. Selected employment characteristics of doctoral scientists and engineers, by field of doctorate: 2001

Field of doctorate	Unemployment rate	Involuntarily out-of-field rate	Labor force participation rate
		[Percent]	
All fields.....	1.3	4.1	88.7
Sciences.....	1.2	4.2	88.5
Computer and information sciences.....	1.3	1.8	97.2
Mathematical sciences.....	1.4	4.7	89.1
Biological and agricultural sciences.....	1.1	3.6	88.3
Agricultural/food sciences.....	1.4	4.6	86.5
Biological sciences.....	1.1	3.6	88.6
Environmental life sciences.....	1.5	1.7	87.7
Health sciences.....	0.5	1.9	90.7
Physical and related sciences.....	1.7	6.1	86.0
Chemistry except biochemistry.....	2.2	4.3	83.9
Earth/atmos/ocean sciences.....	1.5	5.7	87.7
Physics and astronomy.....	1.0	8.9	88.5
Social sciences.....	1.3	4.8	88.1
Economics.....	1.3	2.3	88.4
Political and related sciences.....	1.5	5.1	89.0
Sociology.....	0.9	4.1	85.8
Other social sciences.....	1.5	7.2	88.4
Psychology.....	0.8	3.1	90.9
Engineering.....	1.7	3.3	89.7
Aerospace/aeronautical engineering.....	S	3.7	88.2
Chemical engineering.....	1.8	3.1	87.0
Civil engineering.....	S	3.5	92.3
Electrical/computer engineering.....	2.0	2.4	90.5
Materials/metallurgical engineering.....	1.6	4.9	90.4
Mechanical engineering.....	1.7	3.2	90.1
Other engineering.....	2.1	3.6	89.1

KEY: S=Suppressed due to too few cases (fewer than 50 weighted cases).

NOTES: Labor force is defined as those employed (E) plus those unemployed and seeking work (U). Population (P) is defined as all S&E doctorate holders under age 76, residing in U.S. during the week of April 15, 2001, who earned their doctorate from U.S. institutions. The labor force participation rate (R_{LF}) is the ratio of the labor force to the population: $R_{LF} = (E+U)/P$. The unemployment rate (R_U) is the ratio of those who are unemployed but seeking employment (U) to the total labor force (E+U): $R_U = U/(E+U)$. Involuntary-out-of-field rate is the percent of employed individuals who reported they were working part-time exclusively because suitable full-time work was not available and/or working in an area not related to the first doctoral degree (in their principal job) at least partially because suitable work in the field was not available.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 5. Doctoral scientists and engineers, by field of doctorate and sex: 2001

Field of doctorate	Total	Male	Female	Total	Male	Female
	[Number]			[Percent]		
All fields.....	656,550	490,230	166,320	100.0	74.7	25.3
Sciences.....	543,580	385,640	157,940	100.0	70.9	29.1
Computer and information sciences.....	11,230	9,370	1,860	100.0	83.4	16.6
Mathematical sciences.....	29,550	25,140	4,410	100.0	85.1	14.9
Biological and agricultural sciences.....	161,220	114,780	46,440	100.0	71.2	28.8
Agricultural/food sciences.....	19,870	16,770	3,110	100.0	84.4	15.6
Biological sciences.....	135,280	92,860	42,420	100.0	68.6	31.4
Environmental life sciences.....	6,070	5,150	920	100.0	84.9	15.1
Health sciences.....	23,700	10,390	13,310	100.0	43.8	56.2
Physical and related sciences.....	131,670	113,870	17,790	100.0	86.5	13.5
Chemistry except biochemistry.....	68,370	56,740	11,640	100.0	83.0	17.0
Earth/atmos/ocean sciences.....	19,190	16,340	2,850	100.0	85.2	14.8
Physics and astronomy.....	44,100	40,800	3,310	100.0	92.5	7.5
Social sciences.....	87,650	60,740	26,910	100.0	69.3	30.7
Economics.....	24,860	20,540	4,320	100.0	82.6	17.4
Political and related sciences.....	19,290	14,670	4,620	100.0	76.1	23.9
Sociology.....	16,130	9,610	6,520	100.0	59.6	40.4
Other social sciences.....	27,370	15,920	11,450	100.0	58.2	41.8
Psychology.....	98,560	51,340	47,220	100.0	52.1	47.9
Engineering.....	112,970	104,600	8,370	100.0	92.6	7.4
Aerospace/aeronautical engineering.....	4,620	4,410	220	100.0	95.3	4.7
Chemical engineering.....	15,950	14,570	1,380	100.0	91.3	8.7
Civil engineering.....	10,160	9,600	550	100.0	94.5	5.5
Electrical/computer engineering.....	30,490	28,600	1,890	100.0	93.8	6.2
Materials/metallurgical engineering.....	11,770	10,470	1,290	100.0	89.0	11.0
Mechanical engineering.....	14,310	13,650	650	100.0	95.4	4.6
Other engineering.....	25,680	23,300	2,380	100.0	90.7	9.3

NOTES: Numbers are rounded to nearest ten. Details may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 6. Doctoral scientists and engineers, by field of doctorate and race/ethnicity: 2001

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Field of doctorate	Total	White ¹	Black	Asian/Pacific Islander	Hispanic	American Indian/Alaskan Native
[Number]						
All fields.....	656,550	526,900	16,060	95,120	16,410	2,060
Sciences.....	543,580	451,760	14,180	61,580	14,190	1,860
Computer and information sciences.....	11,230	7,300	220	3,440	260	S
Mathematical sciences.....	29,550	23,210	470	5,010	830	S
Biological and agricultural sciences.....	161,220	132,460	3,160	21,190	3,980	430
Agricultural/food sciences.....	19,870	16,150	410	2,580	650	80
Biological sciences.....	135,280	110,870	2,680	18,280	3,140	310
Environmental life sciences.....	6,070	5,430	80	330	190	S
Health sciences.....	23,700	19,410	1,140	2,360	680	110
Physical and related sciences.....	131,670	106,850	1,690	20,200	2,580	350
Chemistry except biochemistry.....	68,370	53,930	1,250	11,570	1,430	200
Earth/atmos/ocean sciences.....	19,190	16,960	110	1,670	390	60
Physics and astronomy.....	44,100	35,960	330	6,960	760	90
Social sciences.....	87,650	73,470	3,980	6,950	2,750	490
Economics.....	24,860	20,330	730	3,020	720	60
Political and related sciences.....	19,290	16,420	1,180	1,060	490	130
Sociology.....	16,130	13,810	950	760	540	70
Other social sciences.....	27,370	22,920	1,110	2,110	1,000	230
Psychology.....	98,560	89,060	3,510	2,430	3,110	440
Engineering.....	112,970	75,130	1,880	33,530	2,220	200
Aerospace/aeronautical engineering.....	4,620	3,750	70	720	80	S
Chemical engineering.....	15,950	10,650	230	4,750	300	S
Civil engineering.....	10,160	6,970	280	2,610	280	S
Electrical/computer engineering.....	30,490	19,370	490	10,010	570	60
Materials/metallurgical engineering.....	11,770	7,550	180	3,770	250	S
Mechanical engineering.....	14,310	8,770	190	5,010	310	S
Other engineering.....	25,680	18,080	440	6,660	440	50

See explanatory information and SOURCE at end of table.

Table 6. Doctoral scientists and engineers, by field of doctorate and race/ethnicity: 2001

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Field of doctorate	Total	White ¹	Black	Asian/Pacific Islander	Hispanic	American Indian/Alaskan Native
[Percent]						
All fields.....	100.0	80.3	2.4	14.5	2.5	0.3
Sciences.....	100.0	83.1	2.6	11.3	2.6	0.3
Computer and information sciences.....	100.0	65.0	2.0	30.6	2.4	S
Mathematical sciences.....	100.0	78.5	1.6	17.0	2.8	S
Biological and agricultural sciences.....	100.0	82.2	2.0	13.1	2.5	0.3
Agricultural/food sciences.....	100.0	81.3	2.1	13.0	3.3	0.4
Biological sciences.....	100.0	82.0	2.0	13.5	2.3	0.2
Environmental life sciences.....	100.0	89.5	1.3	5.5	3.1	S
Health sciences.....	100.0	81.9	4.8	10.0	2.9	0.5
Physical and related sciences.....	100.0	81.2	1.3	15.3	2.0	0.3
Chemistry except biochemistry.....	100.0	78.9	1.8	16.9	2.1	0.3
Earth/atmos/ocean sciences.....	100.0	88.4	0.5	8.7	2.0	0.3
Physics and astronomy.....	100.0	81.5	0.8	15.8	1.7	0.2
Social sciences.....	100.0	83.8	4.5	7.9	3.1	0.6
Economics.....	100.0	81.8	3.0	12.2	2.9	0.3
Political and related sciences.....	100.0	85.1	6.1	5.5	2.5	0.7
Sociology.....	100.0	85.6	5.9	4.7	3.3	0.4
Other social sciences.....	100.0	83.7	4.0	7.7	3.7	0.8
Psychology.....	100.0	90.4	3.6	2.5	3.2	0.4
Engineering.....	100.0	66.5	1.7	29.7	2.0	0.2
Aerospace/aeronautical engineering.....	100.0	81.1	1.6	15.5	1.7	S
Chemical engineering.....	100.0	66.8	1.5	29.8	1.9	S
Civil engineering.....	100.0	68.6	2.8	25.7	2.7	S
Electrical/computer engineering.....	100.0	63.5	1.6	32.8	1.9	0.2
Materials/metallurgical engineering.....	100.0	64.2	1.5	32.1	2.1	S
Mechanical engineering.....	100.0	61.3	1.3	35.0	2.1	S
Other engineering.....	100.0	70.4	1.7	25.9	1.7	0.2

¹ 'Other' race included with 'white'.**KEY:** S=Suppressed due to too few cases (fewer than 50 weighted cases).**NOTES:** The race/ethnicity data shown are for all doctoral recipients, including temporary residents. Numbers are rounded to nearest ten.

Details may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 7. Doctoral scientists and engineers employed as postdocs, by field of doctorate: 2001

Field of doctorate	Number	Percent
Total on postdoc ¹	21,870	100.0
Sciences.....	20,700	94.7
Computer and information sciences.....	50	0.2
Mathematical sciences.....	900	4.1
Biological and agricultural sciences.....	12,890	58.9
Agricultural/food sciences.....	650	3.0
Biological sciences.....	12,080	55.2
Environmental life sciences.....	160	0.7
Health sciences.....	520	2.4
Physical and related sciences.....	3,820	17.5
Chemistry except biochemistry.....	1,800	8.2
Earth/atmos/ocean sciences.....	550	2.5
Physics and astronomy.....	1,470	6.7
Social sciences.....	720	3.3
Economics.....	80	0.4
Political and related sciences.....	180	0.8
Sociology.....	150	0.7
Other social sciences.....	310	1.4
Psychology.....	1,800	8.2
Engineering.....	1,170	5.3
Aerospace/aeronautical engineering.....	60	0.3
Chemical engineering.....	110	0.5
Civil engineering.....	130	0.6
Electrical/computer engineering.....	130	0.6
Materials/metallurgical engineering.....	200	0.9
Mechanical engineering.....	140	0.6
Other engineering.....	410	1.9

¹ Postdoc is a temporary position awarded in academe, industry or government primarily for gaining additional education and training in research.

NOTES: Numbers are rounded to nearest ten. Details may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 8. Doctoral scientists and engineers employed as postdocs, by selected characteristics: 2001

Characteristic	All fields		Biological and agricultural sciences		Other fields	
	Number	Percent	Number	Percent	Number	Percent
Total on postdoc ¹	21,870	100.0	12,890	100.0	8,970	100.0
Employment sector						
Educational institution.....	17,680	80.8	10,720	83.2	6,960	77.6
Business/industry.....	2,110	9.6	1,150	8.9	970	10.8
Government.....	2,070	9.5	1,030	8.0	1,050	11.7
Years since doctorate						
5 years or less.....	18,910	86.5	11,120	86.3	7,800	87.0
6-10 years.....	2,290	10.5	1,510	11.7	780	8.7
11-15 years.....	380	1.7	140	1.1	240	2.7
More than 15 years.....	290	1.3	130	1.0	160	1.8
Sex						
Male.....	12,940	59.2	7,230	56.1	5,710	63.7
Female.....	8,930	40.8	5,670	44.0	3,260	36.3
Race/ethnicity						
White ²	14,370	65.7	7,920	61.4	6,450	71.9
Black.....	600	2.7	230	1.8	360	4.0
Asian/Pacific Islander.....	5,960	27.3	4,180	32.4	1,790	20.0
Hispanic.....	890	4.1	540	4.2	350	3.9
American Indian/Alaskan Native.....	S	S	S	S	S	S
Age						
Under 35.....	11,380	52.0	6,290	48.8	5,090	56.7
35-44.....	8,790	40.2	5,690	44.1	3,100	34.6
45-75.....	1,700	7.8	920	7.1	780	8.7
Citizenship status						
U.S. citizen, native.....	13,310	60.9	7,530	58.4	5,780	64.4
U.S. citizen, naturalized.....	1,610	7.4	1,100	8.5	510	5.7
Non-U.S. citizen, permanent resident.....	2,850	13.0	1,990	15.4	860	9.6
Non-U.S. citizen, temporary resident.....	4,100	18.7	2,270	17.6	1,830	20.4

¹ Postdoc is a temporary position awarded in academe, industry or government primarily for gaining additional education and training in research.

² 'Other' race included with 'White'.

KEY: S = Suppressed due to too few cases (fewer than 50 weighted cases).

NOTES: Race/ethnicity data are shown for all doctorate recipients, including temporary residents. Numbers are rounded to nearest ten.

Details may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 9. Employed doctoral scientists and engineers, by field of doctorate, race/ethnicity, and sex: 2001

Page 1 of 4

Field of doctorate	Total			White ¹			Black		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
[Number]									
All fields.....	574,890	427,770	147,110	455,220	337,870	117,340	15,050	9,320	5,730
Sciences.....	475,300	335,800	139,510	391,040	278,510	112,530	13,230	7,680	5,550
Computer and information sciences.....	10,780	9,070	1,710	7,000	5,790	1,220	220	180	S
Mathematical sciences.....	25,960	22,120	3,840	20,060	17,290	2,770	440	330	120
Biological and agricultural sciences.....	140,790	100,080	40,710	114,590	83,130	31,460	2,880	1,860	1,020
Agricultural/food sciences.....	16,950	14,190	2,750	13,540	11,570	1,970	350	290	70
Biological sciences.....	118,600	81,500	37,100	96,390	67,560	28,830	2,450	1,520	930
Environmental life sciences.....	5,240	4,380	860	4,660	4,000	660	70	60	S
Health sciences.....	21,390	9,240	12,150	17,390	7,190	10,200	1,100	440	670
Physical and related sciences.....	111,330	96,120	15,210	88,530	77,900	10,630	1,650	1,380	270
Chemistry except biochemistry.....	56,100	46,460	9,650	43,000	36,500	6,500	1,220	1,000	220
Earth/atmos/ocean sciences.....	16,590	14,100	2,490	14,490	12,370	2,120	100	90	S
Physics and astronomy.....	38,640	35,560	3,070	31,040	29,030	2,000	330	290	S
Social sciences.....	76,170	52,430	23,740	63,430	44,040	19,390	3,550	2,220	1,330
Economics.....	21,690	17,810	3,880	17,630	14,630	3,000	660	580	80
Political and related sciences.....	16,910	12,780	4,140	14,320	11,000	3,310	1,080	730	350
Sociology.....	13,710	7,940	5,770	11,690	6,840	4,850	820	450	360
Other social sciences.....	23,850	13,900	9,950	19,790	11,570	8,220	990	460	530
Psychology.....	88,890	46,740	42,150	80,050	43,180	36,870	3,380	1,270	2,110
Engineering.....	99,580	91,980	7,610	64,170	59,360	4,810	1,820	1,640	180
Aerospace/aeronautical engineering.....	4,040	3,850	190	3,230	3,100	130	70	70	S
Chemical engineering.....	13,630	12,450	1,180	8,760	8,030	720	220	180	S
Civil engineering.....	9,320	8,800	530	6,390	5,990	400	260	250	S
Electrical/computer engineering.....	27,050	25,250	1,800	16,440	15,490	960	490	450	S
Materials/metallurgical engineering.....	10,460	9,370	1,090	6,550	5,820	730	180	160	S
Mechanical engineering.....	12,670	12,150	530	7,480	7,230	250	180	170	S
Other engineering.....	22,410	20,120	2,290	15,320	13,700	1,620	420	360	70

See explanatory information and SOURCE at end of table.

Table 9. Employed doctoral scientists and engineers, by field of doctorate, race/ethnicity, and sex: 2001

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Field of doctorate	Asian/Pacific Islander			Hispanic			American Indian/Alaskan Native		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
All fields.....	[Number]								
All fields.....	87,770	69,170	18,600	15,020	10,080	4,940	1,840	1,330	500
Sciences.....	56,370	40,140	16,230	13,010	8,290	4,710	1,650	1,170	480
Computer and information sciences.....	3,280	2,870	410	260	230	S	S	S	S
Mathematical sciences.....	4,710	3,850	870	720	640	80	S	S	S
Biological and agricultural sciences.....	19,360	12,420	6,940	3,610	2,410	1,210	350	260	90
Agricultural/food sciences.....	2,390	1,800	590	610	480	130	S	S	S
Biological sciences.....	16,650	10,420	6,230	2,850	1,820	1,030	260	190	70
Environmental life sciences.....	310	190	120	160	110	50	S	S	S
Health sciences.....	2,140	1,310	830	650	260	390	110	S	70
Physical and related sciences.....	18,440	14,600	3,840	2,400	1,950	440	320	290	S
Chemistry except biochemistry.....	10,400	7,790	2,600	1,320	1,010	310	170	160	S
Earth/atmos/ocean sciences.....	1,560	1,270	290	370	320	S	60	50	S
Physics and astronomy.....	6,480	5,540	940	710	620	90	90	80	S
Social sciences.....	6,270	4,230	2,040	2,500	1,610	890	420	330	90
Economics.....	2,750	2,050	700	630	550	90	S	S	S
Political and related sciences.....	910	650	260	480	300	180	130	90	S
Sociology.....	640	320	310	500	270	230	60	S	S
Other social sciences.....	1,980	1,210	760	890	490	400	210	170	S
Psychology.....	2,170	870	1,300	2,860	1,190	1,670	420	230	200
Engineering.....	31,400	29,030	2,370	2,010	1,790	230	180	160	S
Aerospace/aeronautical engineering.....	650	630	S	80	50	S	S	S	S
Chemical engineering.....	4,360	3,990	370	280	240	S	S	S	S
Civil engineering.....	2,380	2,280	110	280	270	S	S	S	S
Electrical/computer engineering.....	9,530	8,780	750	550	490	60	S	S	S
Materials/metallurgical engineering.....	3,530	3,230	300	190	160	S	S	S	S
Mechanical engineering.....	4,760	4,500	260	210	200	S	S	S	S
Other engineering.....	6,180	5,620	560	420	390	S	50	50	S

See explanatory information and SOURCE at end of table.

Table 9. Employed doctoral scientists and engineers, by field of doctorate, race/ethnicity, and sex: 2001

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Field of doctorate	Total			White ¹			Black		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
[Percent]									
All fields.....	100.0	74.4	25.6	100.0	74.2	25.8	100.0	61.9	38.1
Sciences.....	100.0	70.6	29.4	100.0	71.2	28.8	100.0	58.0	42.0
Computer and information sciences.....	100.0	84.1	15.9	100.0	82.6	17.4	100.0	81.6	S
Mathematical sciences.....	100.0	85.2	14.8	100.0	86.2	13.8	100.0	73.3	26.7
Biological and agricultural sciences.....	100.0	71.1	28.9	100.0	72.5	27.5	100.0	64.6	35.4
Agricultural/food sciences.....	100.0	83.8	16.2	100.0	85.5	14.5	100.0	80.8	19.2
Biological sciences.....	100.0	68.7	31.3	100.0	70.1	29.9	100.0	61.9	38.1
Environmental life sciences.....	100.0	83.5	16.5	100.0	85.8	14.2	100.0	75.0	S
Health sciences.....	100.0	43.2	56.8	100.0	41.4	58.6	100.0	39.5	60.5
Physical and related sciences.....	100.0	86.3	13.7	100.0	88.0	12.0	100.0	83.8	16.2
Chemistry except biochemistry.....	100.0	82.8	17.2	100.0	84.9	15.1	100.0	82.0	18.0
Earth/atmos/ocean sciences.....	100.0	85.0	15.0	100.0	85.3	14.7	100.0	88.5	S
Physics and astronomy.....	100.0	92.0	8.0	100.0	93.5	6.5	100.0	89.0	S
Social sciences.....	100.0	68.8	31.2	100.0	69.4	30.6	100.0	62.6	37.4
Economics.....	100.0	82.1	17.9	100.0	83.0	17.0	100.0	87.4	12.6
Political and related sciences.....	100.0	75.5	24.5	100.0	76.9	23.1	100.0	67.6	32.4
Sociology.....	100.0	57.9	42.1	100.0	58.5	41.5	100.0	55.5	44.5
Other social sciences.....	100.0	58.3	41.7	100.0	58.5	41.5	100.0	46.4	53.6
Psychology.....	100.0	52.6	47.4	100.0	53.9	46.1	100.0	37.6	62.4
Engineering.....	100.0	92.4	7.6	100.0	92.5	7.5	100.0	90.1	9.9
Aerospace/aeronautical engineering.....	100.0	95.3	4.7	100.0	95.9	4.1	100.0	94.1	S
Chemical engineering.....	100.0	91.3	8.7	100.0	91.8	8.2	100.0	83.3	S
Civil engineering.....	100.0	94.4	5.6	100.0	93.8	6.2	100.0	96.2	S
Electrical/computer engineering.....	100.0	93.3	6.7	100.0	94.2	5.8	100.0	93.3	S
Materials/metallurgical engineering.....	100.0	89.6	10.4	100.0	88.8	11.2	100.0	87.9	S
Mechanical engineering.....	100.0	95.8	4.2	100.0	96.7	3.3	100.0	95.4	S
Other engineering.....	100.0	89.8	10.2	100.0	89.4	10.6	100.0	84.2	15.8

See explanatory information and SOURCE at end of table.

Table 9. Employed doctoral scientists and engineers, by field of doctorate, race/ethnicity, and sex: 2001

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Field of doctorate	Asian/Pacific Islander			Hispanic			American Indian/Alaskan Native		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
[Percent]									
All fields.....	100.0	78.8	21.2	100.0	67.1	32.9	100.0	72.7	27.3
Sciences.....	100.0	71.2	28.8	100.0	63.7	36.3	100.0	71.0	29.0
Computer and information sciences.....	100.0	87.4	12.6	100.0	86.8	S	100.0	S	S
Mathematical sciences.....	100.0	81.6	18.4	100.0	89.1	10.9	100.0	S	S
Biological and agricultural sciences.....	100.0	64.1	35.9	100.0	66.6	33.4	100.0	75.6	24.4
Agricultural/food sciences.....	100.0	75.4	24.6	100.0	79.4	20.6	100.0	S	S
Biological sciences.....	100.0	62.6	37.4	100.0	63.8	36.2	100.0	72.7	27.3
Environmental life sciences.....	100.0	61.7	38.3	100.0	67.8	32.2	100.0	S	S
Health sciences.....	100.0	61.4	38.6	100.0	40.2	59.8	100.0	S	62.3
Physical and related sciences.....	100.0	79.2	20.8	100.0	81.4	18.6	100.0	90.3	S
Chemistry except biochemistry.....	100.0	75.0	25.0	100.0	76.5	23.5	100.0	92.5	S
Earth/atmos/ocean sciences.....	100.0	81.2	18.8	100.0	86.6	S	100.0	79.2	S
Physics and astronomy.....	100.0	85.5	14.5	100.0	87.9	12.1	100.0	94.1	S
Social sciences.....	100.0	67.5	32.5	100.0	64.5	35.5	100.0	78.3	21.7
Economics.....	100.0	74.4	25.6	100.0	86.4	13.6	100.0	S	S
Political and related sciences.....	100.0	71.4	28.6	100.0	62.8	37.2	100.0	73.5	S
Sociology.....	100.0	50.8	49.2	100.0	54.6	45.4	100.0	S	S
Other social sciences.....	100.0	61.5	38.5	100.0	55.3	44.7	100.0	80.9	S
Psychology.....	100.0	40.0	60.0	100.0	41.6	58.4	100.0	53.7	46.3
Engineering.....	100.0	92.5	7.5	100.0	88.8	11.2	100.0	87.8	S
Aerospace/aeronautical engineering.....	100.0	96.6	S	100.0	64.1	S	100.0	S	S
Chemical engineering.....	100.0	91.5	8.5	100.0	83.8	S	100.0	S	S
Civil engineering.....	100.0	95.6	4.4	100.0	97.3	S	100.0	S	S
Electrical/computer engineering.....	100.0	92.1	7.9	100.0	88.9	11.1	100.0	S	S
Materials/metallurgical engineering.....	100.0	91.5	8.5	100.0	82.8	S	100.0	S	S
Mechanical engineering.....	100.0	94.6	5.4	100.0	93.9	S	100.0	S	S
Other engineering.....	100.0	91.0	9.0	100.0	90.9	S	100.0	95.2	S

¹ 'Other' race included with 'white'.

KEY: S=Suppressed due to too few cases (fewer than 50 weighted cases).

NOTES: The race/ethnicity data shown are for all doctoral recipients, including temporary residents. Numbers are rounded to nearest ten.
Details may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 10. Employed doctoral scientists and engineers, by field of doctorate and citizenship status: 2001

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Field of doctorate	Total	U.S. citizen			Non-U.S. citizen		
		Total	Native born	Naturalized	Total	Permanent resident	Temporary resident
[Number]							
All fields.....	574,890	518,110	440,940	77,170	56,780	39,980	16,800
Sciences.....	475,300	436,610	385,150	51,460	38,690	27,330	11,360
Computer and information sciences.....	10,780	8,260	6,140	2,120	2,520	1,870	650
Mathematical sciences.....	25,960	22,490	18,380	4,100	3,470	2,150	1,330
Biological and agricultural sciences.....	140,790	127,970	112,580	15,390	12,830	9,000	3,830
Agricultural/food sciences.....	16,950	15,320	12,990	2,330	1,630	1,010	620
Biological sciences.....	118,600	107,790	95,020	12,770	10,810	7,710	3,100
Environmental life sciences.....	5,240	4,850	4,570	280	390	280	110
Health sciences.....	21,390	19,830	17,840	1,980	1,560	1,070	490
Physical and related sciences.....	111,330	101,030	84,490	16,540	10,290	7,210	3,080
Chemistry except biochemistry.....	56,100	51,090	42,700	8,390	5,020	3,460	1,550
Earth/atmos/ocean sciences.....	16,590	15,190	13,630	1,560	1,400	1,050	340
Physics and astronomy.....	38,640	34,760	28,160	6,590	3,880	2,690	1,190
Social sciences.....	76,170	69,800	62,510	7,280	6,370	4,760	1,620
Economics.....	21,690	18,670	16,280	2,400	3,020	1,940	1,080
Political and related sciences.....	16,910	15,990	14,320	1,680	920	760	170
Sociology.....	13,710	13,150	12,120	1,030	560	520	S
Other social sciences.....	23,850	21,980	19,800	2,180	1,870	1,540	330
Psychology.....	88,890	87,240	83,200	4,050	1,640	1,270	370
Engineering.....	99,580	81,500	55,790	25,710	18,090	12,650	5,430
Aerospace/aeronautical engineering.....	4,040	3,490	2,800	690	550	420	130
Chemical engineering.....	13,630	11,520	8,200	3,330	2,110	1,570	540
Civil engineering.....	9,320	7,650	4,880	2,770	1,670	1,190	480
Electrical/computer engineering.....	27,050	21,120	13,920	7,200	5,930	4,000	1,940
Materials/metallurgical engineering.....	10,460	8,470	6,100	2,370	1,990	1,350	640
Mechanical engineering.....	12,670	10,160	6,490	3,670	2,510	1,820	690
Other engineering.....	22,410	19,080	13,400	5,690	3,330	2,320	1,010

See explanatory information and SOURCE at end of table.

Table 10. Employed doctoral scientists and engineers, by field of doctorate and citizenship status: 2001

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Field of doctorate	Total	U.S. citizen			Non-U.S. citizen		
		Total	Native born	Naturalized	Total	Permanent resident	Temporary resident
[Percent]							
All fields.....	100.0	90.1	76.7	13.4	9.9	7.0	2.9
Sciences.....	100.0	91.9	81.0	10.8	8.1	5.7	2.4
Computer and information sciences.....	100.0	76.6	57.0	19.6	23.4	17.4	6.0
Mathematical sciences.....	100.0	86.6	70.8	15.8	13.4	8.3	5.1
Biological and agricultural sciences.....	100.0	90.9	80.0	10.9	9.1	6.4	2.7
Agricultural/food sciences.....	100.0	90.4	76.6	13.8	9.6	6.0	3.6
Biological sciences.....	100.0	90.9	80.1	10.8	9.1	6.5	2.6
Environmental life sciences.....	100.0	92.5	87.2	5.3	7.5	5.4	2.1
Health sciences.....	100.0	92.7	83.4	9.3	7.3	5.0	2.3
Physical and related sciences.....	100.0	90.8	75.9	14.9	9.2	6.5	2.8
Chemistry except biochemistry.....	100.0	91.1	76.1	15.0	8.9	6.2	2.8
Earth/atmos/ocean sciences.....	100.0	91.6	82.2	9.4	8.4	6.4	2.1
Physics and astronomy.....	100.0	90.0	72.9	17.1	10.0	7.0	3.1
Social sciences.....	100.0	91.6	82.1	9.6	8.4	6.2	2.1
Economics.....	100.0	86.1	75.0	11.0	13.9	8.9	5.0
Political and related sciences.....	100.0	94.5	84.6	9.9	5.5	4.5	1.0
Sociology.....	100.0	95.9	88.4	7.5	4.1	3.8	0.0
Other social sciences.....	100.0	92.1	83.0	9.1	7.9	6.5	1.4
Psychology.....	100.0	98.2	93.6	4.6	1.8	1.4	0.4
Engineering.....	100.0	81.8	56.0	25.8	18.2	12.7	5.5
Aerospace/aeronautical engineering.....	100.0	86.4	69.2	17.2	13.6	10.3	3.3
Chemical engineering.....	100.0	84.6	60.2	24.4	15.4	11.5	4.0
Civil engineering.....	100.0	82.0	52.3	29.7	18.0	12.8	5.2
Electrical/computer engineering.....	100.0	78.1	51.5	26.6	21.9	14.8	7.2
Materials/metallurgical engineering.....	100.0	81.0	58.4	22.6	19.0	12.9	6.1
Mechanical engineering.....	100.0	80.2	51.2	28.9	19.8	14.4	5.4
Other engineering.....	100.0	85.2	59.8	25.4	14.8	10.3	4.5

NOTES: Numbers are rounded to nearest ten. Details may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 11. Employed doctoral scientists and engineers, by field of doctorate and age: 2001

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Field of doctorate	Total	Under 35	35-39	40-44	45-49	50-54	55-59	60-64	65-75
[Number]									
All fields.....	574,890	54,880	80,000	87,220	92,620	90,670	84,810	53,320	31,380
Sciences.....	475,300	42,750	62,200	69,260	78,730	79,490	72,770	44,280	25,820
Computer and information sciences.....	10,780	1,710	2,630	2,470	1,950	1,340	590	S	S
Mathematical sciences.....	25,960	2,950	3,400	3,010	3,120	3,640	4,720	3,690	1,430
Biological and agricultural sciences.....	140,790	14,150	21,150	22,010	26,010	20,990	18,840	11,040	6,600
Agricultural/food sciences.....	16,950	840	2,200	2,910	3,850	2,620	2,320	1,300	900
Biological sciences.....	118,600	13,030	18,360	18,320	21,250	17,370	15,440	9,300	5,530
Environmental life sciences.....	5,240	280	580	790	900	1,000	1,080	440	170
Health sciences.....	21,390	1,390	1,950	2,840	3,800	5,200	3,600	1,700	900
Physical and related sciences.....	111,330	11,240	16,160	17,810	16,440	14,570	16,130	11,990	7,000
Chemistry except biochemistry.....	56,100	6,680	8,130	9,000	8,870	6,430	8,000	5,760	3,240
Earth/atmos/ocean sciences.....	16,590	870	2,310	3,080	2,950	2,780	2,330	1,350	920
Physics and astronomy.....	38,640	3,690	5,730	5,730	4,610	5,360	5,800	4,870	2,840
Social sciences.....	76,170	4,750	7,310	9,760	11,700	14,950	14,130	8,900	4,670
Economics.....	21,690	1,870	2,310	3,210	3,520	3,780	3,370	2,310	1,340
Political and related sciences.....	16,910	1,120	1,910	2,120	2,220	3,090	3,570	1,850	1,030
Sociology.....	13,710	680	1,140	1,340	1,950	3,020	2,650	1,750	1,190
Other social sciences.....	23,850	1,090	1,960	3,090	4,020	5,060	4,540	2,990	1,110
Psychology.....	88,890	6,550	9,590	11,360	15,710	18,810	14,750	6,910	5,200
Engineering.....	99,580	12,130	17,800	17,960	13,880	11,180	12,040	9,040	5,560
Aerospace/aeronautical engineering.....	4,040	720	660	530	350	490	510	550	250
Chemical engineering.....	13,630	1,950	2,120	2,630	1,980	1,250	1,580	1,080	1,060
Civil engineering.....	9,320	790	1,480	1,540	1,180	1,160	1,330	1,130	710
Electrical/computer engineering.....	27,050	3,830	5,520	4,790	3,580	2,650	3,170	2,220	1,290
Materials/metallurgical engineering.....	10,460	1,430	2,270	2,130	1,560	1,220	660	890	300
Mechanical engineering.....	12,670	1,510	2,510	2,430	1,750	1,540	1,360	840	740
Other engineering.....	22,410	1,910	3,250	3,910	3,480	2,890	3,430	2,330	1,200

See explanatory information and SOURCE at end of table.

Table 11. Employed doctoral scientists and engineers, by field of doctorate and age: 2001

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Field of doctorate	Total	Under 35	35-39	40-44	45-49	50-54	55-59	60-64	65-75
	[Percent]								
All fields.....	100.0	9.5	13.9	15.2	16.1	15.8	14.8	9.3	5.5
Sciences.....	100.0	9.0	13.1	14.6	16.6	16.7	15.3	9.3	5.4
Computer and information sciences.....	100.0	15.8	24.4	22.9	18.1	12.5	5.5	S	S
Mathematical sciences.....	100.0	11.4	13.1	11.6	12.0	14.0	18.2	14.2	5.5
Biological and agricultural sciences.....	100.0	10.1	15.0	15.6	18.5	14.9	13.4	7.8	4.7
Agricultural/food sciences.....	100.0	5.0	13.0	17.1	22.7	15.5	13.7	7.7	5.3
Biological sciences.....	100.0	11.0	15.5	15.4	17.9	14.6	13.0	7.8	4.7
Environmental life sciences.....	100.0	5.3	11.2	15.0	17.2	19.0	20.7	8.4	3.2
Health sciences.....	100.0	6.5	9.1	13.3	17.8	24.3	16.8	8.0	4.2
Physical and related sciences.....	100.0	10.1	14.5	16.0	14.8	13.1	14.5	10.8	6.3
Chemistry except biochemistry.....	100.0	11.9	14.5	16.0	15.8	11.5	14.3	10.3	5.8
Earth/atmos/ocean sciences.....	100.0	5.3	13.9	18.5	17.8	16.8	14.1	8.1	5.6
Physics and astronomy.....	100.0	9.6	14.8	14.8	11.9	13.9	15.0	12.6	7.4
Social sciences.....	100.0	6.2	9.6	12.8	15.4	19.6	18.6	11.7	6.1
Economics.....	100.0	8.6	10.6	14.8	16.2	17.4	15.6	10.6	6.2
Political and related sciences.....	100.0	6.6	11.3	12.6	13.1	18.3	21.1	11.0	6.1
Sociology.....	100.0	5.0	8.3	9.8	14.2	22.0	19.3	12.8	8.7
Other social sciences.....	100.0	4.6	8.2	12.9	16.8	21.2	19.0	12.5	4.6
Psychology.....	100.0	7.4	10.8	12.8	17.7	21.2	16.6	7.8	5.9
Engineering.....	100.0	12.2	17.9	18.0	13.9	11.2	12.1	9.1	5.6
Aerospace/aeronautical engineering.....	100.0	17.9	16.3	13.0	8.5	12.0	12.6	13.5	6.1
Chemical engineering.....	100.0	14.3	15.6	19.3	14.5	9.2	11.6	7.9	7.7
Civil engineering.....	100.0	8.4	15.8	16.6	12.6	12.4	14.3	12.2	7.7
Electrical/computer engineering.....	100.0	14.2	20.4	17.7	13.3	9.8	11.7	8.2	4.8
Materials/metallurgical engineering.....	100.0	13.7	21.7	20.4	14.9	11.6	6.3	8.5	2.9
Mechanical engineering.....	100.0	11.9	19.8	19.2	13.8	12.1	10.8	6.6	5.8
Other engineering.....	100.0	8.5	14.5	17.4	15.5	12.9	15.3	10.4	5.4

KEY: S=Suppressed due to too few cases (fewer than 50 weighted cases).

NOTES: Numbers are rounded to nearest ten. Details may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 12. Employed doctoral scientists and engineers, by field of doctorate and years since doctorate: 2001

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Field of doctorate	Total	5 years or less	6-10 years	11-15 years	16-20 years	21-25 years	More than 25 years
[Number]							
All fields.....	574,890	116,770	102,440	82,890	75,160	69,640	127,980
Sciences.....	475,300	92,830	82,090	68,510	65,260	60,410	106,210
Computer and information sciences.....	10,780	3,840	3,610	2,000	860	470	S
Mathematical sciences.....	25,960	4,720	3,960	2,630	2,780	3,110	8,750
Biological and agricultural sciences.....	140,790	29,060	24,540	20,360	19,900	17,530	29,400
Agricultural/food sciences.....	16,950	2,820	2,820	3,080	2,760	1,960	3,510
Biological sciences.....	118,600	24,900	21,090	16,560	16,370	14,830	24,850
Environmental life sciences.....	5,240	1,340	630	710	780	730	1,050
Health sciences.....	21,390	6,150	5,080	3,150	2,850	2,100	2,050
Physical and related sciences.....	111,330	18,860	18,040	15,800	13,880	12,720	32,040
Chemistry except biochemistry.....	56,100	9,620	8,780	8,140	7,000	6,210	16,360
Earth/atmos/ocean sciences.....	16,590	2,990	3,160	2,700	2,290	2,100	3,340
Physics and astronomy.....	38,640	6,260	6,100	4,960	4,580	4,400	12,340
Social sciences.....	76,170	14,330	11,810	10,450	10,860	11,770	16,950
Economics.....	21,690	3,610	3,070	3,020	3,200	3,270	5,520
Political and related sciences.....	16,910	3,740	2,630	2,090	1,670	2,530	4,250
Sociology.....	13,710	2,280	1,810	1,830	2,290	2,590	2,910
Other social sciences.....	23,850	4,700	4,290	3,510	3,700	3,370	4,280
Psychology.....	88,890	15,870	15,060	14,110	14,130	12,700	17,010
Engineering.....	99,580	23,940	20,350	14,380	9,900	9,240	21,770
Aerospace/aeronautical engineering.....	4,040	1,040	690	400	290	480	1,140
Chemical engineering.....	13,630	2,640	2,210	2,620	1,480	1,210	3,470
Civil engineering.....	9,320	2,200	1,680	1,410	990	570	2,470
Electrical/computer engineering.....	27,050	7,330	5,950	3,610	2,260	2,200	5,710
Materials/metallurgical engineering.....	10,460	2,770	2,480	1,490	1,000	1,160	1,560
Mechanical engineering.....	12,670	3,220	3,030	1,810	1,090	1,140	2,390
Other engineering.....	22,410	4,750	4,300	3,040	2,800	2,480	5,040

See explanatory information and SOURCE at end of table.

Table 12. Employed doctoral scientists and engineers, by field of doctorate and years since doctorate: 2001

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Field of doctorate	Total	5 years or less	6-10 years	11-15 years	16-20 years	21-25 years	More than 25 years
	[Percent]						
All fields.....	100.0	20.3	17.8	14.4	13.1	12.1	22.3
Sciences.....	100.0	19.5	17.3	14.4	13.7	12.7	22.3
Computer and information sciences.....	100.0	35.6	33.5	18.6	8.0	4.4	S
Mathematical sciences.....	100.0	18.2	15.3	10.1	10.7	12.0	33.7
Biological and agricultural sciences.....	100.0	20.6	17.4	14.5	14.1	12.5	20.9
Agricultural/food sciences.....	100.0	16.7	16.6	18.2	16.3	11.6	20.7
Biological sciences.....	100.0	21.0	17.8	14.0	13.8	12.5	21.0
Environmental life sciences.....	100.0	25.5	12.0	13.6	14.9	14.0	19.9
Health sciences.....	100.0	28.8	23.7	14.8	13.3	9.8	9.6
Physical and related sciences.....	100.0	16.9	16.2	14.2	12.5	11.4	28.8
Chemistry except biochemistry.....	100.0	17.1	15.6	14.5	12.5	11.1	29.2
Earth/atmos/ocean sciences.....	100.0	18.0	19.1	16.3	13.8	12.7	20.1
Physics and astronomy.....	100.0	16.2	15.8	12.8	11.8	11.4	31.9
Social sciences.....	100.0	18.8	15.5	13.7	14.3	15.5	22.3
Economics.....	100.0	16.6	14.2	13.9	14.7	15.1	25.4
Political and related sciences.....	100.0	22.1	15.6	12.4	9.9	15.0	25.1
Sociology.....	100.0	16.6	13.2	13.3	16.7	18.9	21.2
Other social sciences.....	100.0	19.7	18.0	14.7	15.5	14.1	17.9
Psychology.....	100.0	17.9	16.9	15.9	15.9	14.3	19.1
Engineering.....	100.0	24.0	20.4	14.4	9.9	9.3	21.9
Aerospace/aeronautical engineering.....	100.0	25.6	17.1	9.9	7.1	12.0	28.3
Chemical engineering.....	100.0	19.4	16.2	19.2	10.9	8.9	25.4
Civil engineering.....	100.0	23.6	18.0	15.1	10.7	6.1	26.5
Electrical/computer engineering.....	100.0	27.1	22.0	13.3	8.4	8.1	21.1
Materials/metallurgical engineering.....	100.0	26.5	23.7	14.3	9.5	11.1	14.9
Mechanical engineering.....	100.0	25.4	23.9	14.2	8.6	9.0	18.8
Other engineering.....	100.0	21.2	19.2	13.6	12.5	11.1	22.5

KEY: S=Suppressed due to too few cases (fewer than 50 weighted cases).

NOTES: Numbers are rounded to nearest ten. Details may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 13. Employed doctoral scientists and engineers, by field of doctorate and sector of employment: 2001

Page 1 of 2

Field of doctorate	Total	Universities and 4-year colleges	Other educational institutions	Private-for- profit	Self- employed	Private not- for-profit	Federal Government	State and local govern- ment	Other sector
[Number]									
All fields.....	574,890	245,060	17,980	196,940	30,420	28,430	38,050	16,580	1,430
Sciences.....	475,300	217,940	17,350	137,980	27,890	25,660	31,860	15,290	1,320
Computer and information sciences.....	10,780	3,760	110	6,060	210	210	310	120	S
Mathematical sciences.....	25,960	14,980	660	7,520	630	630	1,250	290	S
Biological and agricultural sciences.....	140,790	72,850	4,320	38,190	4,160	6,470	11,530	3,210	70
Agricultural/food sciences.....	16,950	7,530	430	6,050	790	440	1,400	300	S
Biological sciences.....	118,600	63,260	3,790	31,040	3,310	5,770	9,070	2,350	S
Environmental life sciences.....	5,240	2,060	100	1,100	60	270	1,050	570	S
Health sciences.....	21,390	11,790	620	4,800	880	1,440	1,300	510	S
Physical and related sciences.....	111,330	37,140	3,660	52,080	2,880	4,040	9,190	2,270	80
Chemistry except biochemistry.....	56,100	14,900	2,100	32,540	1,490	1,520	2,560	980	S
Earth/atmos/ocean sciences.....	16,590	7,790	500	3,800	610	630	2,500	760	S
Physics and astronomy.....	38,640	14,450	1,060	15,730	780	1,890	4,120	520	80
Social sciences.....	76,170	47,240	2,530	9,770	3,010	4,270	5,300	2,940	1,120
Economics.....	21,690	11,760	330	3,680	900	760	2,560	690	1,030
Political and related sciences.....	16,910	11,220	670	1,770	720	740	940	800	50
Sociology.....	13,710	9,470	560	820	460	1,390	610	410	S
Other social sciences.....	23,850	14,790	980	3,490	930	1,380	1,190	1,050	S
Psychology.....	88,890	30,190	5,450	19,570	16,130	8,600	3,000	5,950	S
Engineering.....	99,580	27,110	620	58,950	2,540	2,770	6,190	1,290	110
Aerospace/aeronautical engineering.....	4,040	1,270	S	1,810	160	90	630	S	S
Chemical engineering.....	13,630	2,430	100	9,940	270	310	490	90	S
Civil engineering.....	9,320	3,630	130	3,930	340	240	600	450	S
Electrical/computer engineering.....	27,050	7,000	110	17,230	800	570	1,260	S	S
Materials/metallurgical engineering.....	10,460	1,550	50	7,450	240	380	720	60	S
Mechanical engineering.....	12,670	3,260	60	7,990	320	380	560	80	S
Other engineering.....	22,410	7,970	170	10,600	400	800	1,930	540	S

See explanatory information and SOURCE at end of table.

Table 13. Employed doctoral scientists and engineers, by field of doctorate and sector of employment: 2001

Page 2 of 2

Field of doctorate	Total	Universities and 4-year colleges	Other educational institutions	Private-for- profit	Self- employed	Private not- for-profit	Federal Government	State and local govern- ment	Other sector
[Percent]									
All fields.....	100.0	42.6	3.1	34.3	5.3	4.9	6.6	2.9	0.2
Sciences.....	100.0	45.9	3.7	29.0	5.9	5.4	6.7	3.2	0.3
Computer and information sciences.....	100.0	34.9	1.1	56.2	1.9	1.9	2.9	1.1	S
Mathematical sciences.....	100.0	57.7	2.5	29.0	2.4	2.4	4.8	1.1	S
Biological and agricultural sciences.....	100.0	51.7	3.1	27.1	3.0	4.6	8.2	2.3	0.1
Agricultural/food sciences.....	100.0	44.4	2.5	35.7	4.6	2.6	8.2	1.8	S
Biological sciences.....	100.0	53.3	3.2	26.2	2.8	4.9	7.7	2.0	S
Environmental life sciences.....	100.0	39.2	1.8	21.0	1.2	5.1	20.1	10.8	S
Health sciences.....	100.0	55.1	2.9	22.4	4.1	6.7	6.1	2.4	S
Physical and related sciences.....	100.0	33.4	3.3	46.8	2.6	3.6	8.3	2.0	0.1
Chemistry except biochemistry.....	100.0	26.6	3.7	58.0	2.7	2.7	4.6	1.8	S
Earth/atmos/ocean sciences.....	100.0	46.9	3.0	22.9	3.7	3.8	15.1	4.6	S
Physics and astronomy.....	100.0	37.4	2.7	40.7	2.0	4.9	10.7	1.3	0.2
Social sciences.....	100.0	62.0	3.3	12.8	3.9	5.6	7.0	3.9	1.5
Economics.....	100.0	54.2	1.5	17.0	4.1	3.5	11.8	3.2	4.7
Political and related sciences.....	100.0	66.3	3.9	10.5	4.3	4.4	5.6	4.7	0.3
Sociology.....	100.0	69.1	4.1	6.0	3.4	10.1	4.4	3.0	S
Other social sciences.....	100.0	62.0	4.1	14.6	3.9	5.8	5.0	4.4	S
Psychology.....	100.0	34.0	6.1	22.0	18.1	9.7	3.4	6.7	S
Engineering.....	100.0	27.2	0.6	59.2	2.5	2.8	6.2	1.3	0.1
Aerospace/aeronautical engineering.....	100.0	31.5	S	44.8	4.0	2.2	15.6	S	S
Chemical engineering.....	100.0	17.8	0.7	72.9	2.0	2.3	3.6	0.6	S
Civil engineering.....	100.0	39.0	1.4	42.2	3.7	2.6	6.4	4.8	S
Electrical/computer engineering.....	100.0	25.9	0.4	63.7	2.9	2.1	4.7	S	S
Materials/metallurgical engineering.....	100.0	14.8	0.5	71.2	2.3	3.7	6.9	0.6	S
Mechanical engineering.....	100.0	25.7	0.5	63.1	2.6	3.0	4.4	0.7	S
Other engineering.....	100.0	35.6	0.8	47.3	1.8	3.6	8.6	2.4	S

KEY: S=Suppressed due to too few cases (fewer than 50 weighted cases).

NOTES: Numbers are rounded to nearest ten. Details may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 14. Employed doctoral scientists and engineers, by sector of employment, broad field of doctorate, and sex: 2001

Page 1 of 2

Employment sector/field of doctorate	Total	Male	Female	Total	Male	Female
	[Number]			[Percent]		
All sectors.....	574,890	427,770	147,110	100.0	74.4	25.6
Sciences.....	475,300	335,800	139,510	100.0	70.6	29.4
Computer and information sciences.....	10,780	9,070	1,710	100.0	84.1	15.9
Mathematical sciences.....	25,960	22,120	3,840	100.0	85.2	14.8
Biological and agricultural sciences.....	140,790	100,080	40,710	100.0	71.1	28.9
Health sciences.....	21,390	9,240	12,150	100.0	43.2	56.8
Physical and related sciences.....	111,330	96,120	15,210	100.0	86.3	13.7
Social sciences.....	76,170	52,430	23,740	100.0	68.8	31.2
Psychology.....	88,890	46,740	42,150	100.0	52.6	47.4
Engineering.....	99,580	91,980	7,610	100.0	92.4	7.6
Universities and 4-year colleges.....	245,060	175,530	69,520	100.0	71.6	28.4
Sciences.....	217,940	150,710	67,230	100.0	69.2	30.8
Computer and information sciences.....	3,760	2,940	820	100.0	78.2	21.8
Mathematical sciences.....	14,980	12,810	2,170	100.0	85.5	14.5
Biological and agricultural sciences.....	72,850	50,790	22,060	100.0	69.7	30.3
Health sciences.....	11,790	4,530	7,250	100.0	38.5	61.5
Physical and related sciences.....	37,140	31,750	5,390	100.0	85.5	14.5
Social sciences.....	47,240	32,260	14,970	100.0	68.3	31.7
Psychology.....	30,190	15,630	14,560	100.0	51.8	48.2
Engineering.....	27,110	24,820	2,290	100.0	91.6	8.4
Other educational institutions.....	17,980	10,660	7,320	100.0	59.3	40.7
Sciences.....	17,350	10,150	7,210	100.0	58.5	41.5
Computer and information sciences.....	110	90	S	100.0	81.2	S
Mathematical sciences.....	660	470	190	100.0	71.5	28.5
Biological and agricultural sciences.....	4,320	2,620	1,700	100.0	60.7	39.3
Health sciences.....	620	170	450	100.0	27.5	72.5
Physical and related sciences.....	3,660	2,890	770	100.0	79.1	20.9
Social sciences.....	2,530	1,420	1,110	100.0	56.0	44.0
Psychology.....	5,450	2,480	2,970	100.0	45.5	54.5
Engineering.....	620	510	110	100.0	82.2	17.8
Private-for-profit.....	196,940	162,030	34,900	100.0	82.3	17.7
Sciences.....	137,980	107,210	30,780	100.0	77.7	22.3
Computer and information sciences.....	6,060	5,300	750	100.0	87.6	12.4
Mathematical sciences.....	7,520	6,420	1,100	100.0	85.3	14.7
Biological and agricultural sciences.....	38,190	28,860	9,330	100.0	75.6	24.4
Health sciences.....	4,800	2,860	1,940	100.0	59.6	40.4
Physical and related sciences.....	52,080	45,250	6,830	100.0	86.9	13.1
Social sciences.....	9,770	7,520	2,240	100.0	77.0	23.0
Psychology.....	19,570	11,000	8,570	100.0	56.2	43.8
Engineering.....	58,950	54,820	4,130	100.0	93.0	7.0
Self-employed.....	30,420	18,500	11,920	100.0	60.8	39.2
Sciences.....	27,890	16,120	11,770	100.0	57.8	42.2
Computer and information sciences.....	210	180	S	100.0	85.7	S
Mathematical sciences.....	630	520	110	100.0	82.7	17.3
Biological and agricultural sciences.....	4,160	2,890	1,270	100.0	69.4	30.6
Health sciences.....	880	310	570	100.0	35.0	65.0
Physical and related sciences.....	2,880	2,550	320	100.0	88.8	11.2
Social sciences.....	3,010	2,260	750	100.0	75.2	24.8
Psychology.....	16,130	7,410	8,720	100.0	45.9	54.1
Engineering.....	2,540	2,380	150	100.0	93.9	6.1

See explanatory information and SOURCE at end of table.

Table 14. Employed doctoral scientists and engineers, by sector of employment, broad field of doctorate, and sex: 2001

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Employment sector/field of doctorate	Total	Male	Female	Total	Male	Female
	[Number]			[Percent]		
Private not-for-profit.....	28,430	18,120	10,310	100.0	63.7	36.3
Sciences.....	25,660	15,630	10,040	100.0	60.9	39.1
Computer and information sciences.....	210	180	S	100.0	87.7	S
Mathematical sciences.....	630	540	90	100.0	85.2	14.8
Biological and agricultural sciences.....	6,470	4,180	2,290	100.0	64.5	35.5
Health sciences.....	1,440	510	930	100.0	35.2	64.8
Physical and related sciences.....	4,040	3,430	610	100.0	84.9	15.1
Social sciences.....	4,270	2,180	2,080	100.0	51.2	48.8
Psychology.....	8,600	4,610	4,000	100.0	53.5	46.5
Engineering.....	2,770	2,500	270	100.0	90.2	9.8
Federal Government.....	38,050	29,830	8,220	100.0	78.4	21.6
Sciences.....	31,860	24,100	7,760	100.0	75.6	24.4
Computer and information sciences.....	310	250	60	100.0	79.9	20.1
Mathematical sciences.....	1,250	1,120	130	100.0	89.8	10.2
Biological and agricultural sciences.....	11,530	8,290	3,240	100.0	71.9	28.1
Health sciences.....	1,300	630	670	100.0	48.2	51.8
Physical and related sciences.....	9,190	8,150	1,040	100.0	88.7	11.3
Social sciences.....	5,300	3,760	1,540	100.0	71.0	29.0
Psychology.....	3,000	1,910	1,090	100.0	63.7	36.3
Engineering.....	6,190	5,730	460	100.0	92.6	7.4
State and local government.....	16,580	12,020	4,560	100.0	72.5	27.5
Sciences.....	15,290	10,930	4,360	100.0	71.5	28.5
Computer and information sciences.....	120	120	S	100.0	100.0	S
Mathematical sciences.....	290	250	S	100.0	85.3	S
Biological and agricultural sciences.....	3,210	2,430	790	100.0	75.5	24.5
Health sciences.....	510	210	300	100.0	41.2	58.8
Physical and related sciences.....	2,270	2,070	190	100.0	91.5	8.5
Social sciences.....	2,940	2,140	800	100.0	72.8	27.2
Psychology.....	5,950	3,710	2,240	100.0	62.3	37.7
Engineering.....	1,290	1,090	200	100.0	84.6	15.4
Other sector.....	1,430	1,070	360	100.0	75.0	25.0
Sciences.....	1,320	960	360	100.0	72.8	27.2
Computer and information sciences.....	S	S	S	S	S	S
Mathematical sciences.....	S	S	S	S	S	S
Biological and agricultural sciences.....	70	S	S	100.0	S	S
Health sciences.....	S	S	S	S	S	S
Physical and related sciences.....	80	S	60	100.0	S	73.6
Social sciences.....	1,120	880	240	100.0	78.8	21.2
Psychology.....	S	S	S	S	S	S
Engineering.....	110	110	S	100.0	100.0	S

KEY: S=Suppressed due to too few cases (fewer than 50 weighted cases).

NOTES: Numbers are rounded to nearest ten. Details may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 15. Employed doctoral scientists and engineers, by sector of employment, broad field of doctorate, and race/ethnicity: 2001

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Employment sector/field of doctorate	Total	White ¹	Black	Asian/Pacific Islander	Hispanic	American Indian/Alaskan Native
[Number]						
All sectors.....	574,890	455,220	15,050	87,770	15,020	1,840
Sciences.....	475,300	391,040	13,230	56,370	13,010	1,650
Computer and information sciences.....	10,780	7,000	220	3,280	260	S
Mathematical sciences.....	25,960	20,060	440	4,710	720	S
Biological and agricultural sciences.....	140,790	114,590	2,880	19,360	3,610	350
Health sciences.....	21,390	17,390	1,100	2,140	650	110
Physical and related sciences.....	111,330	88,530	1,650	18,440	2,400	320
Social sciences.....	76,170	63,430	3,550	6,270	2,500	420
Psychology.....	88,890	80,050	3,380	2,170	2,860	420
Engineering.....	99,580	64,170	1,820	31,400	2,010	180
Universities and 4-year colleges.....	245,060	200,660	8,000	27,720	7,830	840
Sciences.....	217,940	180,050	7,250	22,830	7,050	760
Computer and information sciences.....	3,760	2,680	100	880	90	S
Mathematical sciences.....	14,980	12,160	310	1,990	510	S
Biological and agricultural sciences.....	72,850	58,760	1,530	10,210	2,210	130
Health sciences.....	11,790	9,780	680	850	420	70
Physical and related sciences.....	37,140	30,900	710	4,410	950	170
Social sciences.....	47,240	39,300	2,350	3,590	1,720	280
Psychology.....	30,190	26,480	1,570	900	1,150	90
Engineering.....	27,110	20,610	750	4,890	780	80
Other educational institutions.....	17,980	15,250	1,030	1,020	600	90
Sciences.....	17,350	14,760	1,020	890	590	90
Computer and information sciences.....	110	70	S	S	S	S
Mathematical sciences.....	660	490	S	140	S	S
Biological and agricultural sciences.....	4,320	3,790	170	260	90	S
Health sciences.....	620	540	S	S	S	S
Physical and related sciences.....	3,660	3,160	170	200	120	S
Social sciences.....	2,530	2,130	230	110	60	S
Psychology.....	5,450	4,580	370	170	280	S
Engineering.....	620	490	S	130	S	S
Private-for-profit.....	196,940	140,210	3,440	48,950	3,890	440
Sciences.....	137,980	107,270	2,510	24,920	2,910	380
Computer and information sciences.....	6,060	3,550	90	2,260	160	S
Mathematical sciences.....	7,520	5,200	80	2,100	140	S
Biological and agricultural sciences.....	38,190	30,690	670	5,800	890	140
Health sciences.....	4,800	3,500	200	970	110	S
Physical and related sciences.....	52,080	38,570	630	11,940	860	80
Social sciences.....	9,770	7,830	240	1,380	270	S
Psychology.....	19,570	17,930	610	460	480	90
Engineering.....	58,950	32,940	940	24,030	990	60
Self-employed.....	30,420	28,000	420	1,300	600	90
Sciences.....	27,890	25,720	410	1,080	600	80
Computer and information sciences.....	210	200	S	S	S	S
Mathematical sciences.....	630	520	S	110	S	S
Biological and agricultural sciences.....	4,160	3,480	60	460	140	S
Health sciences.....	880	830	S	S	S	S
Physical and related sciences.....	2,880	2,530	S	270	60	S
Social sciences.....	3,010	2,820	S	70	80	S
Psychology.....	16,130	15,340	270	150	310	60
Engineering.....	2,540	2,280	S	230	S	S

See explanatory information and SOURCE at end of table.

Table 15. Employed doctoral scientists and engineers, by sector of employment, broad field of doctorate, and race/ethnicity: 2001

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Employment sector/field of doctorate	Total	White ¹	Black	Asian/Pacific Islander	Hispanic	American Indian/Alaskan Native
[Number]						
Private not-for-profit.....	28,430	24,430	530	2,690	650	130
Sciences.....	25,660	22,370	500	2,100	560	120
Computer and information sciences.....	210	120	S	80	S	S
Mathematical sciences.....	630	560	S	50	S	S
Biological and agricultural sciences.....	6,470	5,530	S	810	80	S
Health sciences.....	1,440	1,230	80	100	S	S
Physical and related sciences.....	4,040	3,580	S	410	S	S
Social sciences.....	4,270	3,630	220	340	50	S
Psychology.....	8,600	7,710	140	310	360	80
Engineering.....	2,770	2,060	S	580	90	S
Federal Government.....	38,050	31,950	970	4,180	810	130
Sciences.....	31,860	27,070	920	3,080	680	120
Computer and information sciences.....	310	300	S	S	S	S
Mathematical sciences.....	1,250	1,000	S	180	50	S
Biological and agricultural sciences.....	11,530	9,580	340	1,450	130	S
Health sciences.....	1,300	1,090	S	110	S	S
Physical and related sciences.....	9,190	7,920	120	870	240	S
Social sciences.....	5,300	4,470	300	420	100	S
Psychology.....	3,000	2,710	110	S	110	S
Engineering.....	6,190	4,890	50	1,110	130	S
State and local government.....	16,580	13,750	620	1,680	440	90
Sciences.....	15,290	12,870	580	1,330	420	90
Computer and information sciences.....	120	80	S	S	S	S
Mathematical sciences.....	290	130	S	130	S	S
Biological and agricultural sciences.....	3,210	2,730	60	360	S	S
Health sciences.....	510	380	S	80	S	S
Physical and related sciences.....	2,270	1,820	S	300	140	S
Social sciences.....	2,940	2,430	160	260	50	50
Psychology.....	5,950	5,300	300	160	180	S
Engineering.....	1,290	870	S	350	S	S
Other sector.....	1,430	960	S	230	200	S
Sciences.....	1,320	930	S	150	200	S
Computer and information sciences.....	S	S	S	S	S	S
Mathematical sciences.....	S	S	S	S	S	S
Biological and agricultural sciences.....	70	S	S	S	S	S
Health sciences.....	S	S	S	S	S	S
Physical and related sciences.....	80	S	S	S	S	S
Social sciences.....	1,120	820	S	100	150	S
Psychology.....	S	S	S	S	S	S
Engineering.....	110	S	S	80	S	S

See explanatory information and SOURCE at end of table.

Table 15. Employed doctoral scientists and engineers, by sector of employment, broad field of doctorate, and race/ethnicity: 2001

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Employment sector/field of doctorate	Total	White ¹	Black	Asian/Pacific Islander	Hispanic	American Indian/Alaskan Native
[Percent]						
All sectors.....	100.0	79.2	2.6	15.3	2.6	0.3
Sciences.....	100.0	82.3	2.8	11.9	2.7	0.3
Computer and information sciences.....	100.0	65.0	2.0	30.5	2.4	S
Mathematical sciences.....	100.0	77.3	1.7	18.2	2.8	S
Biological and agricultural sciences.....	100.0	81.4	2.0	13.7	2.6	0.2
Health sciences.....	100.0	81.3	5.2	10.0	3.0	0.5
Physical and related sciences.....	100.0	79.5	1.5	16.6	2.2	0.3
Social sciences.....	100.0	83.3	4.7	8.2	3.3	0.5
Psychology.....	100.0	90.1	3.8	2.4	3.2	0.5
Engineering.....	100.0	64.4	1.8	31.5	2.0	0.2
Universities and 4-year colleges.....	100.0	81.9	3.3	11.3	3.2	0.3
Sciences.....	100.0	82.6	3.3	10.5	3.2	0.3
Computer and information sciences.....	100.0	71.2	2.6	23.4	2.5	S
Mathematical sciences.....	100.0	81.2	2.1	13.3	3.4	S
Biological and agricultural sciences.....	100.0	80.7	2.1	14.0	3.0	0.2
Health sciences.....	100.0	83.0	5.7	7.2	3.5	0.6
Physical and related sciences.....	100.0	83.2	1.9	11.9	2.6	0.4
Social sciences.....	100.0	83.2	5.0	7.6	3.6	0.6
Psychology.....	100.0	87.7	5.2	3.0	3.8	0.3
Engineering.....	100.0	76.0	2.8	18.1	2.9	0.3
Other educational institutions.....	100.0	84.8	5.7	5.7	3.3	0.5
Sciences.....	100.0	85.0	5.9	5.1	3.4	0.5
Computer and information sciences.....	100.0	62.5	S	S	S	S
Mathematical sciences.....	100.0	74.9	S	21.9	S	S
Biological and agricultural sciences.....	100.0	87.7	4.0	6.1	2.2	S
Health sciences.....	100.0	86.7	S	S	S	S
Physical and related sciences.....	100.0	86.3	4.5	5.4	3.2	S
Social sciences.....	100.0	84.0	9.0	4.4	2.5	S
Psychology.....	100.0	84.1	6.8	3.1	5.1	S
Engineering.....	100.0	78.6	S	20.2	S	S
Private-for-profit.....	100.0	71.2	1.7	24.9	2.0	0.2
Sciences.....	100.0	77.7	1.8	18.1	2.1	0.3
Computer and information sciences.....	100.0	58.6	1.4	37.3	2.6	S
Mathematical sciences.....	100.0	69.1	1.0	28.0	1.9	S
Biological and agricultural sciences.....	100.0	80.4	1.8	15.2	2.3	0.4
Health sciences.....	100.0	72.9	4.1	20.2	2.2	S
Physical and related sciences.....	100.0	74.1	1.2	22.9	1.7	0.2
Social sciences.....	100.0	80.2	2.5	14.2	2.8	S
Psychology.....	100.0	91.6	3.1	2.4	2.4	0.4
Engineering.....	100.0	55.9	1.6	40.8	1.7	0.1
Self-employed.....	100.0	92.0	1.4	4.3	2.0	0.3
Sciences.....	100.0	92.2	1.5	3.9	2.1	0.3
Computer and information sciences.....	100.0	96.5	S	S	S	S
Mathematical sciences.....	100.0	82.6	S	17.0	S	S
Biological and agricultural sciences.....	100.0	83.8	1.5	11.1	3.3	S
Health sciences.....	100.0	94.1	S	S	S	S
Physical and related sciences.....	100.0	88.0	S	9.4	1.9	S
Social sciences.....	100.0	93.8	S	2.3	2.8	S
Psychology.....	100.0	95.1	1.7	0.9	1.9	0.4
Engineering.....	100.0	89.9	S	9.0	S	S

See explanatory information and SOURCE at end of table.

Table 15. Employed doctoral scientists and engineers, by sector of employment, broad field of doctorate, and race/ethnicity: 2001

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Employment sector/field of doctorate	Total	White ¹	Black	Asian/Pacific Islander	Hispanic	American Indian/Alaskan Native
[Percent]						
Private not-for-profit.....	100.0	85.9	1.9	9.4	2.3	0.5
Sciences.....	100.0	87.2	2.0	8.2	2.2	0.5
Computer and information sciences.....	100.0	58.6	S	38.1	S	S
Mathematical sciences.....	100.0	88.3	S	8.5	S	S
Biological and agricultural sciences.....	100.0	85.5	S	12.6	1.2	S
Health sciences.....	100.0	85.3	5.8	7.0	S	S
Physical and related sciences.....	100.0	88.6	S	10.1	S	S
Social sciences.....	100.0	85.1	5.1	8.0	1.3	S
Psychology.....	100.0	89.6	1.7	3.5	4.2	0.9
Engineering.....	100.0	74.4	S	21.0	3.3	S
Federal Government.....	100.0	84.0	2.6	11.0	2.1	0.3
Sciences.....	100.0	84.9	2.9	9.7	2.1	0.4
Computer and information sciences.....	100.0	95.1	S	S	S	S
Mathematical sciences.....	100.0	80.2	S	14.6	4.2	S
Biological and agricultural sciences.....	100.0	83.1	2.9	12.6	1.1	S
Health sciences.....	100.0	84.3	S	8.6	S	S
Physical and related sciences.....	100.0	86.3	1.3	9.4	2.6	S
Social sciences.....	100.0	84.3	5.6	8.0	1.9	S
Psychology.....	100.0	90.4	3.6	S	3.8	S
Engineering.....	100.0	78.9	0.8	17.9	2.1	S
State and local government.....	100.0	82.9	3.8	10.1	2.6	0.6
Sciences.....	100.0	84.2	3.8	8.7	2.7	0.6
Computer and information sciences.....	100.0	70.1	S	S	S	S
Mathematical sciences.....	100.0	43.9	S	45.6	S	S
Biological and agricultural sciences.....	100.0	85.2	1.9	11.3	S	S
Health sciences.....	100.0	74.2	S	16.3	S	S
Physical and related sciences.....	100.0	80.5	S	13.3	6.2	S
Social sciences.....	100.0	82.4	5.3	8.7	1.7	1.8
Psychology.....	100.0	89.0	5.0	2.7	2.9	S
Engineering.....	100.0	67.7	S	27.1	S	S
Other sector.....	100.0	67.3	S	15.9	13.9	S
Sciences.....	100.0	70.6	S	11.1	15.1	S
Computer and information sciences.....	100.0	S	S	S	S	S
Mathematical sciences.....	100.0	S	S	S	S	S
Biological and agricultural sciences.....	100.0	S	S	S	S	S
Health sciences.....	100.0	S	S	S	S	S
Physical and related sciences.....	100.0	S	S	S	S	S
Social sciences.....	100.0	73.7	S	8.8	13.8	S
Psychology.....	100.0	S	S	S	S	S
Engineering.....	100.0	S	S	71.1	S	S

¹'Other' race included with 'white'.

KEY: S=Suppressed due to too few cases (fewer than 50 weighted cases).

NOTES: The race/ethnicity data shown are for all doctoral recipients, including temporary residents. Numbers are rounded to nearest ten. Details may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 16. Employed doctoral scientists and engineers, by field of doctorate and primary or secondary work activity: 2001

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Field of doctorate	Total number	Research and development					Teaching	Management, sales, and administration	Computer applications	Professional services	Other activities
		Total	Applied research	Basic research	Development	Design					
[Number]											
All fields.....	574,890	366,870	204,230	142,620	72,690	38,810	182,870	216,650	71,390	95,720	30,820
Sciences.....	475,300	292,030	160,780	131,370	45,820	20,590	163,050	180,180	50,740	90,670	25,850
Computer and information sciences.....	10,780	7,650	4,030	2,110	1,530	1,110	3,010	3,450	5,030	210	250
Mathematical sciences.....	25,960	16,840	6,630	8,100	1,510	1,990	13,760	6,300	7,200	1,210	980
Biological and agricultural sciences.....	140,790	98,870	54,120	55,880	12,050	3,350	42,140	55,780	9,490	20,030	7,580
Agricultural/food sciences.....	16,950	11,970	9,450	3,540	2,440	510	4,300	7,130	1,180	1,350	1,270
Biological sciences.....	118,600	83,190	41,560	51,690	9,080	2,630	36,380	46,200	7,890	18,100	6,070
Environmental life sciences.....	5,240	3,700	3,110	640	520	210	1,460	2,440	420	580	240
Health sciences.....	21,390	11,980	9,140	2,690	1,660	610	9,190	8,940	1,210	4,990	1,110
Physical and related sciences.....	111,330	79,900	43,650	31,640	21,740	9,470	27,440	41,360	18,050	6,700	5,400
Chemistry except biochemistry.....	56,100	39,380	24,670	13,350	13,580	3,580	12,240	23,600	4,710	3,690	3,160
Earth/atmos/ocean sciences.....	16,590	12,210	6,700	6,410	1,270	690	5,510	5,640	2,870	980	850
Physics and astronomy.....	38,640	28,310	12,280	11,880	6,880	5,200	9,680	12,120	10,470	2,040	1,390
Social sciences.....	76,170	46,700	25,350	20,580	3,710	1,870	40,920	26,010	6,080	8,660	6,120
Economics.....	21,690	14,740	10,290	4,950	690	720	10,050	7,210	2,140	2,550	1,680
Political and related sciences.....	16,910	8,850	3,490	5,150	670	110	9,980	6,170	950	1,630	1,830
Sociology.....	13,710	8,630	4,570	4,080	540	290	7,740	4,500	1,070	1,240	920
Other social sciences.....	23,850	14,480	7,000	6,390	1,810	750	13,160	8,140	1,930	3,240	1,690
Psychology.....	88,890	30,100	17,860	10,370	3,640	2,180	26,600	38,330	3,670	48,870	4,410
Engineering.....	99,580	74,840	43,450	11,250	26,870	18,220	19,810	36,470	20,650	5,050	4,970
Aerospace/aeronautical engineering.....	4,040	3,120	1,860	750	690	670	940	1,330	900	240	300
Chemical engineering.....	13,630	10,180	6,040	1,260	4,830	2,590	2,040	5,280	2,190	710	680
Civil engineering.....	9,320	6,530	3,950	810	930	1,960	2,990	3,830	1,630	840	310
Electrical/computer engineering.....	27,050	20,660	11,140	3,050	8,090	4,980	4,770	9,800	7,350	680	1,010
Materials/metallurgical engineering.....	10,460	8,350	5,360	1,300	4,380	1,420	1,270	4,170	770	400	750
Mechanical engineering.....	12,670	9,300	4,840	1,410	3,970	2,820	2,280	4,250	2,810	620	700
Other engineering.....	22,410	16,710	10,250	2,660	3,980	3,790	5,510	7,810	5,010	1,560	1,220

See explanatory information and SOURCE at end of table.

Table 16. Employed doctoral scientists and engineers, by field of doctorate and primary or secondary work activity: 2001

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Field of doctorate	Total number	Research and development					Teaching	Management, sales, and administration	Computer applications	Professional services	Other activities
		Total	Applied research	Basic research	Development	Design					
[Percent]											
All fields.....	574,890	63.8	35.5	24.8	12.6	6.8	31.8	37.7	12.4	16.7	5.4
Sciences.....	475,300	61.4	33.8	27.6	9.6	4.3	34.3	37.9	10.7	19.1	5.4
Computer and information sciences.....	10,780	70.9	37.4	19.5	14.2	10.3	27.9	32.1	46.7	2.0	2.3
Mathematical sciences.....	25,960	64.9	25.5	31.2	5.8	7.7	53.0	24.3	27.7	4.7	3.8
Biological and agricultural sciences.....	140,790	70.2	38.4	39.7	8.6	2.4	29.9	39.6	6.7	14.2	5.4
Agricultural/food sciences.....	16,950	70.6	55.8	20.9	14.4	3.0	25.4	42.1	7.0	8.0	7.5
Biological sciences.....	118,600	70.1	35.0	43.6	7.7	2.2	30.7	39.0	6.7	15.3	5.1
Environmental life sciences.....	5,240	70.7	59.2	12.3	10.0	4.1	27.8	46.6	8.0	11.0	4.5
Health sciences.....	21,390	56.0	42.7	12.6	7.7	2.9	43.0	41.8	5.6	23.3	5.2
Physical and related sciences.....	111,330	71.8	39.2	28.4	19.5	8.5	24.6	37.1	16.2	6.0	4.9
Chemistry except biochemistry.....	56,100	70.2	44.0	23.8	24.2	6.4	21.8	42.1	8.4	6.6	5.6
Earth/atmos/ocean sciences.....	16,590	73.6	40.4	38.6	7.7	4.2	33.2	34.0	17.3	5.9	5.1
Physics and astronomy.....	38,640	73.3	31.8	30.8	17.8	13.5	25.1	31.4	27.1	5.3	3.6
Social sciences.....	76,170	61.3	33.3	27.0	4.9	2.5	53.7	34.2	8.0	11.4	8.0
Economics.....	21,690	68.0	47.4	22.8	3.2	3.3	46.3	33.2	9.8	11.8	7.7
Political and related sciences.....	16,910	52.3	20.7	30.5	3.9	0.6	59.0	36.5	5.6	9.7	10.8
Sociology.....	13,710	62.9	33.4	29.8	4.0	2.1	56.4	32.8	7.8	9.0	6.7
Other social sciences.....	23,850	60.7	29.3	26.8	7.6	3.2	55.2	34.1	8.1	13.6	7.1
Psychology.....	88,890	33.9	20.1	11.7	4.1	2.5	29.9	43.1	4.1	55.0	5.0
Engineering.....	99,580	75.2	43.6	11.3	27.0	18.3	19.9	36.6	20.7	5.1	5.0
Aerospace/aeronautical engineering.....	4,040	77.2	46.1	18.6	17.1	16.5	23.4	32.8	22.2	6.0	7.4
Chemical engineering.....	13,630	74.7	44.3	9.3	35.4	19.0	15.0	38.8	16.1	5.2	5.0
Civil engineering.....	9,320	70.0	42.3	8.7	10.0	21.0	32.1	41.1	17.4	9.0	3.4
Electrical/computer engineering.....	27,050	76.4	41.2	11.3	29.9	18.4	17.6	36.2	27.2	2.5	3.7
Materials/metallurgical engineering.....	10,460	79.8	51.3	12.4	41.9	13.5	12.1	39.9	7.4	3.9	7.2
Mechanical engineering.....	12,670	73.4	38.2	11.1	31.3	22.3	18.0	33.5	22.2	4.9	5.5
Other engineering.....	22,410	74.6	45.8	11.9	17.8	16.9	24.6	34.8	22.4	7.0	5.4

NOTES: Numbers are rounded to nearest ten. Details exceed total due to multiple responses.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 17. Employed doctoral scientists and engineers, by employer location and broad field of doctorate: 2001

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Employer location	Total	Sciences	Computer and information sciences	Mathematical sciences	Biological and agricultural sciences	Health sciences	Physical and related sciences	Social sciences	Psychology	Engineering
[Number]										
All locations.....	574,890	475,300	10,780	25,960	140,790	21,390	111,330	76,170	88,890	99,580
New England.....	47,450	40,110	720	2,210	12,160	1,680	9,670	6,370	7,300	7,340
Connecticut.....	9,490	8,220	80	200	2,500	300	2,180	1,100	1,850	1,270
Maine.....	1,990	1,800	S	50	510	100	420	400	310	190
Massachusetts.....	29,100	24,500	560	1,690	7,860	950	5,830	3,680	3,910	4,600
New Hampshire.....	2,470	1,880	80	140	290	100	590	290	380	600
Rhode Island.....	2,640	2,200	S	110	430	130	470	500	560	440
Vermont.....	1,750	1,510	S	S	550	110	170	390	280	240
Middle Atlantic.....	92,860	78,850	2,070	4,630	20,580	3,370	18,950	12,510	16,740	14,010
New Jersey.....	22,740	18,640	890	1,340	4,420	720	6,400	2,160	2,700	4,100
New York.....	43,980	38,200	940	2,230	9,710	1,620	7,280	6,620	9,800	5,790
Pennsylvania.....	26,140	22,010	240	1,050	6,450	1,030	5,270	3,720	4,240	4,130
East North Central.....	77,860	62,710	1,020	3,680	16,950	3,260	14,090	11,100	12,600	15,150
Illinois.....	22,110	18,500	550	1,070	5,040	910	3,940	3,730	3,260	3,610
Indiana.....	9,580	7,950	100	590	1,830	480	1,710	1,620	1,620	1,630
Michigan.....	17,380	13,070	140	910	3,570	440	3,030	2,010	2,960	4,310
Ohio.....	20,070	15,870	160	740	4,280	1,050	3,880	2,420	3,350	4,200
Wisconsin.....	8,720	7,320	70	380	2,230	370	1,530	1,320	1,410	1,400
West North Central.....	34,010	29,620	420	1,260	11,180	1,460	4,740	4,870	5,700	4,400
Iowa.....	4,390	3,930	110	290	1,450	170	470	880	560	450
Kansas.....	3,970	3,510	100	160	1,180	140	370	660	910	460
Minnesota.....	11,410	9,590	100	290	3,300	700	1,870	1,380	1,950	1,820
Missouri.....	9,280	8,070	110	330	3,300	270	1,490	1,120	1,450	1,210
Nebraska.....	1,080	960	S	S	500	S	90	110	180	120
North Dakota.....	2,890	2,610	S	80	1,080	90	300	580	500	280
South Dakota.....	1,000	950	S	60	360	80	140	150	150	60
South Atlantic.....	109,440	94,490	1,540	5,660	28,540	4,850	20,300	18,190	15,410	14,950
Delaware.....	3,540	2,910	50	80	980	120	1,100	300	290	630
District of Columbia.....	14,200	13,080	100	550	2,190	540	1,780	6,440	1,500	1,110
Florida.....	15,740	13,230	280	620	3,900	660	2,240	2,350	3,180	2,510
Georgia.....	11,990	10,360	240	510	3,130	580	2,080	1,820	2,000	1,630
Maryland.....	22,730	19,680	350	1,320	8,030	1,040	4,450	1,890	2,610	3,050
North Carolina.....	16,760	14,740	160	850	5,490	950	3,230	1,680	2,380	2,020
South Carolina.....	5,130	4,250	100	290	1,330	220	990	660	660	880
Virginia.....	17,460	14,640	260	1,390	2,960	660	3,920	2,840	2,600	2,810
West Virginia.....	1,890	1,590	S	S	550	80	510	220	180	300
East South Central.....	22,080	18,460	310	1,280	6,070	1,090	3,780	2,700	3,230	3,620
Alabama.....	5,330	4,120	90	450	1,400	350	800	450	580	1,200
Kentucky.....	4,590	4,200	100	450	1,550	230	430	730	710	390
Mississippi.....	3,170	2,580	50	100	1,150	180	460	360	280	600
Tennessee.....	8,980	7,560	70	290	1,980	330	2,080	1,160	1,660	1,430

See explanatory information and SOURCE at end of table.

Table 17. Employed doctoral scientists and engineers, by employer location and broad field of doctorate: 2001

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Employer location	Total	Sciences	Computer and information sciences	Mathematical sciences	Biological and agricultural sciences	Health sciences	Physical and related sciences	Social sciences	Psychology	Engineering
[Number]										
West South Central.....	44,700	35,170	880	1,600	11,270	1,850	8,810	4,940	5,820	9,530
Arkansas.....	2,560	2,370	S	70	1,070	60	430	400	300	190
Louisiana.....	5,290	4,510	70	220	1,590	310	930	720	670	770
Oklahoma.....	4,360	3,600	50	80	1,050	210	820	600	800	760
Texas.....	32,490	24,680	730	1,230	7,540	1,270	6,630	3,230	4,050	7,800
Mountain.....	37,950	30,150	610	1,480	8,370	1,040	8,740	4,520	5,390	7,800
Arizona.....	7,070	5,410	60	180	1,430	240	1,290	1,070	1,130	1,660
Colorado.....	11,780	9,970	240	350	2,770	330	2,890	1,420	1,970	1,810
Idaho.....	2,230	1,770	S	50	650	80	390	210	370	460
Montana.....	1,440	1,340	S	180	420	S	210	180	300	100
New Mexico.....	7,750	5,490	130	250	1,070	200	2,820	570	460	2,250
Nevada.....	2,030	1,620	50	170	580	S	330	170	300	410
Utah.....	4,820	3,810	90	200	1,220	140	640	840	680	1,010
Wyoming.....	840	740	S	80	240	S	170	80	170	100
Pacific.....	106,450	84,030	3,190	4,080	25,040	2,740	21,940	10,640	16,400	22,420
Alaska.....	1,200	1,120	S	S	380	S	390	190	100	80
California.....	80,870	62,400	2,760	3,340	17,260	1,890	17,390	7,190	12,580	18,470
Hawaii.....	2,580	2,370	S	80	830	90	420	560	370	200
Oregon.....	7,040	5,780	200	230	2,230	200	1,200	880	840	1,260
Washington.....	14,760	12,350	180	430	4,340	540	2,540	1,820	2,510	2,410
Puerto Rico.....	1,410	1,230	S	60	430	S	260	170	290	180
Other U.S. territories and other areas.....	320	210	S	S	130	S	S	S	S	110

See explanatory information and SOURCE at end of table.

Table 17. Employed doctoral scientists and engineers, by employer location and broad field of doctorate: 2001

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Employer location	Total	Sciences	Computer and information sciences	Mathematical sciences	Biological and agricultural sciences	Health sciences	Physical and related sciences	Social sciences	Psychology	Engineering
[Percent distribution]										
All locations.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
New England.....	8.3	8.4	6.7	8.5	8.6	7.9	8.7	8.4	8.2	7.4
Connecticut.....	1.7	1.7	0.7	0.8	1.8	1.4	2.0	1.4	2.1	1.3
Maine.....	0.3	0.4	S	0.2	0.4	0.5	0.4	0.5	0.4	0.2
Massachusetts.....	5.1	5.2	5.2	6.5	5.6	4.5	5.2	4.8	4.4	4.6
New Hampshire.....	0.4	0.4	0.7	0.5	0.2	0.4	0.5	0.4	0.4	0.6
Rhode Island.....	0.5	0.5	S	0.4	0.3	0.6	0.4	0.7	0.6	0.4
Vermont.....	0.3	0.3	S	S	0.4	0.5	0.2	0.5	0.3	0.2
Middle Atlantic.....	16.2	16.6	19.2	17.8	14.6	15.8	17.0	16.4	18.8	14.1
New Jersey.....	4.0	3.9	8.3	5.2	3.1	3.4	5.7	2.8	3.0	4.1
New York.....	7.7	8.0	8.7	8.6	6.9	7.6	6.5	8.7	11.0	5.8
Pennsylvania.....	4.5	4.6	2.2	4.1	4.6	4.8	4.7	4.9	4.8	4.1
East North Central.....	13.5	13.2	9.5	14.2	12.0	15.2	12.7	14.6	14.2	15.2
Illinois.....	3.8	3.9	5.1	4.1	3.6	4.3	3.5	4.9	3.7	3.6
Indiana.....	1.7	1.7	0.9	2.3	1.3	2.2	1.5	2.1	1.8	1.6
Michigan.....	3.0	2.7	1.3	3.5	2.5	2.1	2.7	2.6	3.3	4.3
Ohio.....	3.5	3.3	1.5	2.8	3.0	4.9	3.5	3.2	3.8	4.2
Wisconsin.....	1.5	1.5	0.6	1.5	1.6	1.7	1.4	1.7	1.6	1.4
West North Central.....	5.9	6.2	3.9	4.9	7.9	6.8	4.3	6.4	6.4	4.4
Iowa.....	0.8	0.8	1.0	1.1	1.0	0.8	0.4	1.2	0.6	0.5
Kansas.....	0.7	0.7	0.9	0.6	0.8	0.7	0.3	0.9	1.0	0.5
Minnesota.....	2.0	2.0	0.9	1.1	2.3	3.3	1.7	1.8	2.2	1.8
Missouri.....	1.6	1.7	1.0	1.3	2.3	1.3	1.3	1.5	1.6	1.2
Nebraska.....	0.2	0.2	S	S	0.4	S	0.1	0.1	0.2	0.1
North Dakota.....	0.5	0.5	S	0.3	0.8	0.4	0.3	0.8	0.6	0.3
South Dakota.....	0.2	0.2	S	0.2	0.3	0.4	0.1	0.2	0.2	0.1
South Atlantic.....	19.0	19.9	14.3	21.8	20.3	22.7	18.2	23.9	17.3	15.0
Delaware.....	0.6	0.6	0.5	0.3	0.7	0.6	1.0	0.4	0.3	0.6
District of Columbia.....	2.5	2.8	0.9	2.1	1.6	2.5	1.6	8.5	1.7	1.1
Florida.....	2.7	2.8	2.6	2.4	2.8	3.1	2.0	3.1	3.6	2.5
Georgia.....	2.1	2.2	2.2	2.0	2.2	2.7	1.9	2.4	2.3	1.6
Maryland.....	4.0	4.1	3.2	5.1	5.7	4.8	4.0	2.5	2.9	3.1
North Carolina.....	2.9	3.1	1.5	3.3	3.9	4.4	2.9	2.2	2.7	2.0
South Carolina.....	0.9	0.9	1.0	1.1	0.9	1.1	0.9	0.9	0.7	0.9
Virginia.....	3.0	3.1	2.4	5.4	2.1	3.1	3.5	3.7	2.9	2.8
West Virginia.....	0.3	0.3	S	S	0.4	0.4	0.5	0.3	0.2	0.3
East South Central.....	3.8	3.9	2.9	4.9	4.3	5.1	3.4	3.5	3.6	3.6
Alabama.....	0.9	0.9	0.8	1.7	1.0	1.7	0.7	0.6	0.7	1.2
Kentucky.....	0.8	0.9	0.9	1.7	1.1	1.1	0.4	1.0	0.8	0.4
Mississippi.....	0.6	0.5	0.5	0.4	0.8	0.8	0.4	0.5	0.3	0.6
Tennessee.....	1.6	1.6	0.6	1.1	1.4	1.5	1.9	1.5	1.9	1.4

See explanatory information and SOURCE at end of table.

Table 17. Employed doctoral scientists and engineers, by employer location and broad field of doctorate: 2001

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Employer location	Total	Sciences	Computer and information sciences	Mathematical sciences	Biological and agricultural sciences	Health sciences	Physical and related sciences	Social sciences	Psychology	Engineering
[Percent distribution]										
West South Central.....	7.8	7.4	8.2	6.2	8.0	8.6	7.9	6.5	6.5	9.6
Arkansas.....	0.4	0.5	S	0.3	0.8	0.3	0.4	0.5	0.3	0.2
Louisiana.....	0.9	0.9	0.6	0.9	1.1	1.5	0.8	0.9	0.8	0.8
Oklahoma.....	0.8	0.8	0.5	0.3	0.7	1.0	0.7	0.8	0.9	0.8
Texas.....	5.7	5.2	6.8	4.7	5.4	5.9	6.0	4.2	4.6	7.8
Mountain.....	6.6	6.3	5.7	5.7	5.9	4.9	7.8	5.9	6.1	7.8
Arizona.....	1.2	1.1	0.6	0.7	1.0	1.1	1.2	1.4	1.3	1.7
Colorado.....	2.0	2.1	2.2	1.4	2.0	1.5	2.6	1.9	2.2	1.8
Idaho.....	0.4	0.4	S	0.2	0.5	0.4	0.4	0.3	0.4	0.5
Montana.....	0.2	0.3	S	0.7	0.3	S	0.2	0.2	0.3	0.1
New Mexico.....	1.3	1.2	1.2	1.0	0.8	0.9	2.5	0.7	0.5	2.3
Nevada.....	0.4	0.3	0.5	0.7	0.4	S	0.3	0.2	0.3	0.4
Utah.....	0.8	0.8	0.9	0.8	0.9	0.6	0.6	1.1	0.8	1.0
Wyoming.....	0.1	0.2	S	0.3	0.2	S	0.1	0.1	0.2	0.1
Pacific.....	18.5	17.7	29.6	15.7	17.8	12.8	19.7	14.0	18.4	22.5
Alaska.....	0.2	0.2	S	S	0.3	S	0.4	0.3	0.1	0.1
California.....	14.1	13.1	25.6	12.9	12.3	8.8	15.6	9.4	14.1	18.5
Hawaii.....	0.4	0.5	S	0.3	0.6	0.4	0.4	0.7	0.4	0.2
Oregon.....	1.2	1.2	1.9	0.9	1.6	0.9	1.1	1.2	0.9	1.3
Washington.....	2.6	2.6	1.7	1.6	3.1	2.5	2.3	2.4	2.8	2.4
Puerto Rico.....	0.2	0.3	S	0.2	0.3	S	0.2	0.2	0.3	0.2
Other U.S. territories and other areas.....	0.1	S	S	S	0.1	S	S	S	S	0.1

KEY: S=Suppressed due to too few cases (fewer than 50 weighted cases).

NOTES: Since the survey sample design does not include geography, the reliability of estimates in some states may be poor due to small sample size.

Numbers are rounded to nearest ten. Details may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

**Table 18. Employed doctoral scientists and engineers in universities and 4-year colleges,
by broad field of doctorate, sex, and faculty rank: 2001**

Field of doctorate/sex	Total	Full professor	Associate professor	Assistant professor	Instructor/ lecturer	Adjunct faculty	Other faculty	Rank not applicable
All fields.....	245,060	86,400	52,920	47,790	7,500	6,290	830	43,330
Male	(71.6)	(84.5)	(70.4)	(61.1)	(53.4)	(60.3)	(77.5)	(63.7)
Female	(28.4)	(15.5)	(29.6)	(38.9)	(46.6)	(39.7)	(22.5)	(36.3)
Sciences	217,940	75,140	46,780	42,890	6,960	5,740	720	39,720
Male	(69.2)	(82.6)	(67.8)	(58.4)	(51.9)	(57.8)	(74.3)	(61.5)
Female	(30.8)	(17.4)	(32.2)	(41.6)	(48.1)	(42.2)	(25.7)	(38.5)
Computer and information sciences	3,760	770	1,710	920	90	S	S	220
Male	(78.2)	(83.4)	(79.9)	(74.4)	S	S	S	(68.3)
Female	(21.8)	(16.6)	(20.1)	(25.6)	S	S	S	(31.7)
Mathematical sciences	14,980	6,720	3,740	2,480	660	390	50	940
Male	(85.5)	(91.3)	(84.2)	(74.2)	(72.8)	(76.7)	(100.0)	(90.9)
Female	(14.5)	(8.7)	(15.8)	(25.8)	(27.2)	(23.3)	S	(9.1)
Biological and agricultural sciences	72,850	22,330	13,740	14,140	2,580	1,350	250	18,440
Male	(69.7)	(83.6)	(71.0)	(64.1)	(43.1)	(71.3)	(74.6)	(59.8)
Female	(30.3)	(16.4)	(29.0)	(35.9)	(56.9)	(28.7)	(25.4)	(40.2)
Health sciences	11,790	2,880	3,350	3,630	400	180	S	1,350
Male	(38.5)	(53.8)	(35.0)	(34.7)	(32.4)	(28.3)	S	(27.7)
Female	(61.5)	(46.2)	(65.0)	(65.3)	(67.6)	(71.7)	S	(72.3)
Physical and related sciences	37,140	13,760	6,600	5,710	890	850	170	9,160
Male	(85.5)	(93.6)	(83.5)	(75.1)	(78.5)	(78.8)	(73.8)	(82.8)
Female	(14.5)	(6.4)	(16.5)	(24.9)	(21.5)	(21.2)	S	(17.2)
Social sciences	47,240	18,980	11,680	9,470	1,290	1,610	220	3,980
Male	(68.3)	(80.5)	(65.1)	(57.0)	(59.2)	(53.1)	(65.8)	(56.1)
Female	(31.7)	(19.5)	(34.9)	(43.0)	(40.8)	(46.9)	(34.2)	(43.9)
Psychology	30,190	9,710	5,960	6,530	1,050	1,300	S	5,630
Male	(51.8)	(71.4)	(52.7)	(38.4)	(36.6)	(32.5)	S	(39.4)
Female	(48.2)	(28.6)	(47.3)	(61.6)	(63.4)	(67.5)	S	(60.6)
Engineering	27,110	11,270	6,140	4,900	540	550	100	3,610
Male	(91.6)	(97.2)	(90.6)	(85.1)	(72.9)	(86.1)	(100.0)	(87.8)
Female	(8.4)	(2.8)	(9.4)	(14.9)	(27.1)	(13.9)	S	(12.2)

KEY: S=Suppressed due to too few cases (fewer than 50 weighted cases).

NOTES: Percentage distribution is shown in parentheses. Numbers are rounded to nearest ten. Details may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 19. Employed doctoral scientists and engineers in universities and 4-year colleges, by broad field of doctorate, sex, faculty rank, and years since doctorate: 2001

Field of doctorate/sex	Total		Full professor		Associate professor		Assistant professor		Instructor/lecturer		All other faculty ¹		Rank not applicable	
	Less than 10 years	10 or more years	Less than 10 years	10 or more years	Less than 10 years	10 or more years	Less than 10 years	10 or more years	Less than 10 years	10 or more years	Less than 10 years	10 or more years	Less than 10 years	10 or more years
All fields.....	86,010	159,040	1,640	84,760	12,320	40,590	37,370	10,420	4,640	2,850	2,840	4,270	27,190	16,140
Male	(60.3)	(77.8)	(56.9)	(85.0)	(65.8)	(71.8)	(61.5)	(59.8)	(53.8)	(52.7)	(48.2)	(71.6)	(58.7)	(72.2)
Female	(39.7)	(22.2)	(43.1)	(15.0)	(34.2)	(28.2)	(38.5)	(40.2)	(46.2)	(47.3)	(51.8)	(28.4)	(41.3)	(27.8)
Sciences	77,220	140,730	1,500	73,630	10,550	36,230	33,050	9,840	4,350	2,610	2,700	3,760	25,060	14,660
Male	(57.7)	(75.5)	(54.0)	(83.2)	(61.9)	(69.5)	(58.5)	(58.1)	(54.1)	(48.2)	(47.9)	(68.1)	(56.7)	(69.8)
Female	(42.3)	(24.5)	(46.0)	(16.8)	(38.1)	(30.5)	(41.5)	(41.9)	(45.9)	(51.8)	(52.1)	(31.9)	(43.3)	(30.2)
Computer and information sciences	2,160	1,600	70	700	930	780	890	S	S	S	S	S	180	S
Male	(76.7)	(80.1)	(70.8)	(84.7)	(80.5)	(79.3)	(75.4)	S	S	S	S	S	(70.0)	S
Female	(23.3)	(19.9)	S	(15.3)	(19.5)	(20.7)	(24.6)	S	S	S	S	S	(30.0)	S
Mathematical sciences	4,160	10,820	100	6,620	870	2,870	2,170	320	480	170	180	270	350	590
Male	(75.3)	(89.4)	(59.2)	(91.8)	(72.1)	(87.8)	(74.0)	(75.6)	(80.7)	(50.6)	(67.4)	(87.5)	(92.0)	(90.2)
Female	(24.7)	(10.6)	S	(8.2)	(27.9)	(12.2)	(26.0)	(24.4)	(19.3)	(49.4)	(32.6)	S	S	(9.8)
Biological and agricultural sciences	27,770	45,080	390	21,930	1,930	11,810	9,310	4,840	1,740	840	690	920	13,710	4,740
Male	(60.7)	(75.3)	(71.0)	(83.9)	(67.3)	(71.6)	(65.1)	(62.1)	(49.4)	(30.0)	(64.0)	(77.7)	(57.8)	(65.5)
Female	(39.3)	(24.7)	(29.0)	(16.1)	(32.7)	(28.4)	(34.9)	(37.9)	(50.6)	(70.0)	(36.0)	(22.3)	(42.2)	(34.5)
Health sciences	5,770	6,020	190	2,680	1,100	2,250	3,040	590	270	130	140	S	1,020	340
Male	(31.9)	(44.7)	S	(56.7)	(29.4)	(37.8)	(35.8)	(28.9)	(28.7)	(40.3)	S	S	(27.1)	(29.5)
Female	(68.1)	(55.3)	(86.4)	(43.3)	(70.6)	(62.2)	(64.2)	(71.1)	(59.7)	(66.5)	S	S	(72.9)	(70.5)
Physical and related sciences	11,720	25,420	210	13,550	1,210	5,390	4,560	1,160	410	480	350	670	4,990	4,170
Male	(77.2)	(89.3)	(88.3)	(93.6)	(77.5)	(84.9)	(77.7)	(64.8)	(76.4)	(80.2)	(61.3)	(86.7)	(77.3)	(89.3)
Female	(22.8)	(10.7)	S	(6.4)	(22.5)	(15.1)	(22.3)	(35.2)	(23.6)	(19.8)	(38.7)	(13.3)	(22.7)	(10.7)
Social sciences	14,700	32,530	420	18,550	3,180	8,500	8,050	1,420	680	610	730	1,100	1,640	2,350
Male	(56.0)	(73.8)	(46.0)	(81.2)	(65.7)	(64.8)	(56.7)	(58.8)	(59.9)	(58.3)	(41.0)	(63.7)	(41.8)	(66.0)
Female	(44.0)	(26.2)	(54.0)	(18.8)	(34.3)	(35.2)	(43.3)	(41.2)	(40.1)	(41.7)	(59.0)	(36.3)	(58.2)	(34.0)
Psychology	10,940	19,250	120	9,590	1,320	4,640	5,040	1,490	710	330	570	760	3,180	2,450
Male	(34.2)	(61.7)	S	(72.1)	(38.0)	(56.9)	(35.7)	(47.3)	(40.0)	(29.5)	(21.8)	(42.7)	(31.8)	(49.3)
Female	(65.8)	(38.3)	(81.5)	(27.9)	(62.0)	(43.1)	(64.3)	(52.7)	(60.0)	(70.5)	(78.2)	(57.3)	(68.2)	(50.7)
Engineering	8,790	18,320	140	11,130	1,780	4,360	4,310	590	290	240	140	520	2,130	1,480
Male	(83.4)	(95.5)	(88.7)	(97.3)	(88.7)	(91.3)	(84.7)	(87.4)	(50.4)	(100.0)	(54.7)	(97.2)	(82.3)	(95.8)
Female	(16.6)	(4.5)	S	(2.7)	(11.3)	(8.7)	(15.3)	(12.6)	(49.6)	S	(45.3)	S	(17.7)	(4.2)

¹ 'All other faculty' includes adjunct or other faculty.

KEY: S=Suppressed due to too few cases (fewer than 50 weighted cases).

NOTES: Percentage distribution is shown in parentheses. Numbers are rounded to nearest ten. Details may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

**Table 20. Employed doctoral scientists and engineers in universities and 4-year colleges,
by broad field of doctorate, race/ethnicity, and faculty rank: 2001**

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Field of doctorate and race/ethnicity	Total	Full professor	Associate professor	Assistant professor	Instructor/ lecturer	All other faculty ¹	Rank not applicable
All fields.....	245,060	86,400	52,920	47,790	7,500	7,120	43,330
White ²	(81.9)	(87.0)	(82.4)	(77.7)	(77.3)	(87.0)	(75.4)
Black.....	(3.3)	(2.1)	(4.1)	(4.5)	(3.8)	(2.5)	(3.4)
Asian/Pacific Islander.....	(11.3)	(7.9)	(9.8)	(13.6)	(14.5)	(7.7)	(17.6)
Hispanic.....	(3.2)	(2.7)	(3.4)	(3.7)	(4.3)	(2.6)	(3.4)
American Indian/Alaskan Native.....	(0.3)	(0.4)	(0.4)	(0.4)	S	S	(0.2)
Sciences	217,940	75,140	46,780	42,890	6,960	6,460	39,720
White ²	(82.6)	(88.6)	(83.2)	(78.3)	(78.0)	(86.4)	(75.3)
Black.....	(3.3)	(2.1)	(3.9)	(4.6)	(3.9)	(2.7)	(3.6)
Asian/Pacific Islander.....	(10.5)	(6.2)	(8.9)	(13.0)	(13.3)	(7.8)	(17.5)
Hispanic.....	(3.2)	(2.7)	(3.5)	(3.7)	(4.6)	(2.9)	(3.4)
American Indian/Alaskan Native.....	(0.3)	(0.4)	(0.4)	(0.4)	S	S	(0.2)
Computer and information sciences	3,760	770	1,710	920	90	S	220
White ²	(71.2)	(65.3)	(71.3)	(71.1)	(81.4)	S	(82.6)
Black.....	(2.6)	S	S	S	S	S	S
Asian/Pacific Islander.....	(23.4)	(26.1)	(24.2)	(23.4)	S	S	S
Hispanic.....	(2.5)	S	S	S	S	S	S
American Indian/Alaskan Native.....	S	S	S	S	S	S	S
Mathematical sciences	14,980	6,720	3,740	2,480	660	450	940
White ²	(81.2)	(84.1)	(79.4)	(76.4)	(82.8)	(70.9)	(84.0)
Black.....	(2.1)	(1.5)	(1.9)	(3.2)	S	S	S
Asian/Pacific Islander.....	(13.3)	(11.0)	(15.6)	(15.6)	(16.2)	(17.8)	(10.2)
Hispanic.....	(3.4)	(3.4)	(3.0)	(4.5)	S	S	S
American Indian/Alaskan Native.....	S	S	S	S	S	S	S
Biological and agricultural sciences	72,850	22,330	13,740	14,140	2,580	1,610	18,440
White ²	(80.7)	(91.1)	(85.1)	(76.5)	(70.1)	(83.7)	(69.1)
Black.....	(2.1)	(1.5)	(2.4)	(1.8)	S	(3.9)	(2.7)
Asian/Pacific Islander.....	(14.0)	(5.4)	(8.8)	(17.9)	(23.6)	(11.8)	(24.3)
Hispanic.....	(3.0)	(2.0)	(3.6)	(3.2)	(4.6)	S	(3.8)
American Indian/Alaskan Native.....	(0.2)	S	S	(0.6)	S	S	S
Health sciences	11,790	2,880	3,350	3,630	400	180	1,350
White ²	(83.0)	(84.5)	(88.9)	(77.7)	(86.2)	(81.0)	(78.0)
Black.....	(5.7)	(3.3)	(5.0)	(8.1)	S	S	(7.0)
Asian/Pacific Islander.....	(7.2)	(7.4)	(3.0)	(10.2)	S	S	(9.6)
Hispanic.....	(3.5)	(4.5)	(1.8)	(3.5)	S	S	(5.1)
American Indian/Alaskan Native.....	(0.6)	S	S	S	S	S	S
Physical and related sciences	37,140	13,760	6,600	5,710	890	1,020	9,160
White ²	(83.2)	(86.7)	(82.4)	(82.1)	(84.9)	(89.0)	(78.3)
Black.....	(1.9)	(1.1)	(3.0)	(2.9)	S	S	(1.7)
Asian/Pacific Islander.....	(11.9)	(8.5)	(10.8)	(12.5)	(9.1)	(10.5)	(17.8)
Hispanic.....	(2.6)	(3.0)	(3.2)	(2.3)	S	S	(2.0)
American Indian/Alaskan Native.....	(0.4)	(0.7)	S	S	S	S	S
Social sciences	47,240	18,980	11,680	9,470	1,290	1,830	3,980
White ²	(83.2)	(87.3)	(82.2)	(75.3)	(84.7)	(92.2)	(80.6)
Black.....	(5.0)	(3.7)	(4.4)	(7.7)	(7.2)	S	(7.3)
Asian/Pacific Islander.....	(7.6)	(5.5)	(8.5)	(11.9)	(4.0)	S	(8.1)
Hispanic.....	(3.6)	(2.9)	(4.0)	(4.6)	S	(3.7)	(3.6)
American Indian/Alaskan Native.....	(0.6)	(0.5)	(0.9)	S	S	S	S

See explanatory information and SOURCE at end of table.

**Table 20. Employed doctoral scientists and engineers in universities and 4-year colleges,
by broad field of doctorate, race/ethnicity, and faculty rank: 2001**

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Field of doctorate and race/ethnicity	Total	Full professor	Associate professor	Assistant professor	Instructor/lecturer	All other faculty ¹	Rank not applicable
Psychology	30,190	9,710	5,960	6,530	1,050	1,330	5,630
White ²	(87.7)	(94.4)	(84.7)	(85.4)	(77.2)	(85.3)	(84.6)
Black.....	(5.2)	(1.7)	(8.7)	(6.2)	(6.2)	S	(6.9)
Asian/Pacific Islander.....	(3.0)	(1.2)	(2.7)	(3.6)	S	(5.2)	(4.8)
Hispanic.....	(3.8)	(2.2)	(3.8)	(4.5)	(12.2)	(6.9)	(3.5)
American Indian/Alaskan Native.....	(0.3)	S	S	S	S	S	S
Engineering	27,110	11,270	6,140	4,900	540	660	3,610
White ²	(76.0)	(76.5)	(76.4)	(72.8)	(67.7)	(93.5)	(76.4)
Black.....	(2.8)	(1.9)	(4.9)	(3.8)	S	S	S
Asian/Pacific Islander.....	(18.1)	(18.7)	(16.1)	(19.1)	(30.0)	S	(18.3)
Hispanic.....	(2.9)	(2.6)	(2.7)	(4.0)	S	S	(3.6)
American Indian/Alaskan Native.....	(0.3)	S	S	S	S	S	S

¹ 'All other faculty' includes adjunct or other faculty.

² 'Other' race included with 'white'.

KEY: S=Suppressed due to too few cases (fewer than 50 weighted cases).

NOTES: The race/ethnicity data shown are for all doctoral recipients, including temporary residents. Percentage distribution is shown in parentheses.

Numbers are rounded to nearest ten. Details may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

**Table 21. Employed doctoral scientists and engineers in universities and 4-year colleges,
by broad field of doctorate, sex, and tenure status: 2001**

Field of doctorate/sex	Total	Tenured	Not tenured		Tenure not applicable
			On tenure track	Not on tenure track	
All fields.....	245,060	122,320	39,070	29,740	53,920
Male	(71.6)	(80.1)	(65.1)	(61.3)	(63.0)
Female	(28.4)	(19.9)	(34.9)	(38.7)	(37.0)
Sciences	217,940	106,600	34,390	27,390	49,560
Male	(69.2)	(77.8)	(62.1)	(58.9)	(61.0)
Female	(30.8)	(22.2)	(37.9)	(41.1)	(39.0)
Computer and information sciences	3,760	2,050	1,070	240	390
Male	(78.2)	(82.3)	(74.6)	(62.0)	(76.5)
Female	(21.8)	(17.7)	(25.4)	(38.0)	(23.5)
Mathematical sciences	14,980	10,100	1,880	1,430	1,580
Male	(85.5)	(89.5)	(72.0)	(74.6)	(85.3)
Female	(14.5)	(10.5)	(28.0)	(25.4)	(14.7)
Biological and agricultural sciences	72,850	30,100	10,870	11,610	20,260
Male	(69.7)	(79.6)	(67.5)	(59.7)	(62.0)
Female	(30.3)	(20.4)	(32.5)	(40.3)	(38.0)
Health sciences	11,790	4,860	2,960	1,700	2,270
Male	(38.5)	(45.8)	(37.2)	(24.8)	(34.5)
Female	(61.5)	(54.2)	(62.8)	(75.2)	(65.5)
Physical and related sciences	37,140	18,050	5,020	4,450	9,620
Male	(85.5)	(89.5)	(78.5)	(84.1)	(82.3)
Female	(14.5)	(10.5)	(21.5)	(15.9)	(17.7)
Social sciences	47,240	27,960	8,280	3,940	7,050
Male	(68.3)	(74.8)	(61.8)	(57.9)	(56.0)
Female	(31.7)	(25.2)	(38.2)	(42.1)	(44.0)
Psychology	30,190	13,490	4,300	4,020	8,390
Male	(51.8)	(66.7)	(39.9)	(38.3)	(40.3)
Female	(48.2)	(33.3)	(60.1)	(61.7)	(59.7)
Engineering	27,110	15,710	4,690	2,350	4,360
Male	(91.6)	(95.1)	(86.6)	(89.4)	(85.4)
Female	(8.4)	(4.9)	(13.4)	(10.6)	(14.6)

KEY: S=Suppressed due to too few cases (fewer than 50 weighted cases).

NOTES: Percentage distribution is shown in parentheses. Numbers are rounded to nearest ten. Details may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 22. Employed doctoral scientists and engineers in universities and 4-year colleges, by broad field of doctorate, sex, tenure status, and years since doctorate: 2001

Field of doctorate/sex	Total		Tenured		Not tenured				Tenure not applicable	
					On tenure track		Not on tenure track			
	Less than 10 years	10 or more years	Less than 10 years	10 or more years	Less than 10 years	10 or more years	Less than 10 years	10 or more years	Less than 10 years	10 or more years
All fields.....	86,010	159,040	10,100	112,220	30,380	8,690	17,450	12,290	28,080	25,840
Male	(60.3)	(77.8)	(64.1)	(81.5)	(65.1)	(65.0)	(56.7)	(67.8)	(56.0)	(70.6)
Female	(39.7)	(22.2)	(35.9)	(18.5)	(34.9)	(35.0)	(43.3)	(32.2)	(44.0)	(29.4)
Sciences	77,220	140,730	8,690	97,910	26,480	7,910	16,240	11,150	25,800	23,760
Male	(57.7)	(75.5)	(60.3)	(79.4)	(62.0)	(62.5)	(54.8)	(64.9)	(54.1)	(68.6)
Female	(42.3)	(24.5)	(39.7)	(20.6)	(38.0)	(37.5)	(45.2)	(35.1)	(45.9)	(31.4)
Computer and information sciences	2,160	1,600	680	1,370	1,000	70	200	S	280	110
Male	(76.7)	(80.1)	(83.5)	(81.6)	(74.5)	(76.4)	(61.8)	S	(78.6)	(71.1)
Female	(23.3)	(19.9)	(16.5)	(18.4)	(25.5)	S	(38.2)	S	(21.4)	S
Mathematical sciences	4,160	10,820	770	9,330	1,690	190	990	440	710	860
Male	(75.3)	(89.4)	(78.3)	(90.5)	(70.4)	(86.8)	(79.2)	(64.2)	(78.2)	(91.2)
Female	(24.7)	(10.6)	(21.7)	(9.5)	(29.6)	S	(20.8)	(35.8)	(21.8)	(8.8)
Biological and agricultural sciences	27,770	45,080	1,410	28,690	7,130	3,750	7,070	4,540	12,170	8,100
Male	(60.7)	(75.3)	(66.4)	(80.2)	(68.1)	(66.3)	(56.4)	(64.9)	(58.3)	(67.6)
Female	(39.3)	(24.7)	(33.6)	(19.8)	(31.9)	(33.7)	(43.6)	(35.1)	(41.7)	(32.4)
Health sciences	5,770	6,020	940	3,920	2,340	620	1,180	520	1,310	950
Male	(31.9)	(44.7)	(28.5)	(50.0)	(39.0)	(30.5)	(22.1)	(31.0)	(30.5)	(39.9)
Female	(68.1)	(55.3)	(71.5)	(50.0)	(61.0)	(69.5)	(77.9)	(69.0)	(69.5)	(60.1)
Physical and related sciences	11,720	25,420	1,180	16,870	3,830	1,200	2,300	2,160	4,420	5,200
Male	(77.2)	(89.3)	(72.9)	(90.6)	(78.5)	(78.3)	(85.4)	(82.7)	(72.9)	(90.4)
Female	(22.8)	(10.7)	(27.1)	(9.4)	(21.5)	(21.7)	(14.6)	(17.3)	(27.1)	(9.6)
Social sciences	14,700	32,530	2,730	25,230	7,080	1,200	2,240	1,700	2,650	4,400
Male	(56.0)	(73.8)	(60.4)	(76.4)	(61.6)	(62.4)	(50.8)	(67.2)	(41.0)	(65.0)
Female	(44.0)	(26.2)	(39.6)	(23.6)	(38.4)	(37.6)	(49.2)	(32.8)	(59.0)	(35.0)
Psychology	10,940	19,250	990	12,500	3,420	870	2,270	1,750	4,260	4,130
Male	(34.2)	(61.7)	(36.9)	(69.1)	(39.7)	(40.5)	(28.6)	(50.7)	(32.2)	(48.7)
Female	(65.8)	(38.3)	(63.1)	(30.9)	(60.3)	(59.5)	(71.4)	(49.3)	(67.8)	(51.3)
Engineering	8,790	18,320	1,410	14,300	3,900	780	1,210	1,140	2,270	2,090
Male	(83.4)	(95.5)	(87.0)	(95.8)	(85.7)	(91.0)	(82.2)	(97.0)	(77.8)	(93.8)
Female	(16.6)	(4.5)	(13.0)	(4.2)	(14.3)	(9.0)	(17.8)	S	(22.2)	(6.2)

KEY: S=Suppressed due to too few cases (fewer than 50 weighted cases).

NOTES: Percentage distribution is shown in parentheses. Numbers are rounded to nearest ten. Details may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

**Table 23. Employed doctoral scientists and engineers in universities and 4-year colleges,
by broad field of doctorate, race/ethnicity, and tenure status: 2001**

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Field of doctorate and race/ethnicity	Total	Tenured	Not tenured		Tenure
			On tenure track	Not on tenure track	not applicable
All fields.....	245,060	122,320	39,070	29,740	53,920
White ¹	(81.9)	(85.6)	(77.4)	(77.5)	(79.2)
Black.....	(3.3)	(2.7)	(4.9)	(3.5)	(3.3)
Asian/Pacific Islander.....	(11.3)	(8.4)	(13.3)	(15.0)	(14.3)
Hispanic.....	(3.2)	(2.9)	(4.0)	(3.8)	(3.1)
American Indian/Alaskan Native.....	(0.3)	(0.4)	(0.4)	(0.2)	(0.2)
Sciences	217,940	106,600	34,390	27,390	49,560
White ¹	(82.6)	(87.0)	(77.7)	(77.3)	(79.6)
Black.....	(3.3)	(2.6)	(5.1)	(3.6)	(3.4)
Asian/Pacific Islander.....	(10.5)	(7.1)	(12.8)	(14.9)	(13.7)
Hispanic.....	(3.2)	(2.9)	(4.0)	(3.9)	(3.1)
American Indian/Alaskan Native.....	(0.3)	(0.4)	(0.4)	(0.3)	(0.2)
Computer and information sciences	3,760	2,050	1,070	240	390
White ¹	(71.2)	(66.6)	(71.7)	(88.4)	(83.4)
Black.....	(2.6)	(3.0)	S	S	S
Asian/Pacific Islander.....	(23.4)	(26.7)	(23.5)	S	(14.6)
Hispanic.....	(2.5)	(3.5)	S	S	S
American Indian/Alaskan Native.....	S	S	S	S	S
Mathematical sciences	14,980	10,100	1,880	1,430	1,580
White ¹	(81.2)	(83.4)	(69.3)	(82.3)	(80.2)
Black.....	(2.1)	(1.4)	(5.3)	(3.5)	S
Asian/Pacific Islander.....	(13.3)	(11.8)	(19.2)	(11.7)	(17.1)
Hispanic.....	(3.4)	(3.3)	(5.9)	S	S
American Indian/Alaskan Native.....	S	S	S	S	S
Biological and agricultural sciences	72,850	30,100	10,870	11,610	20,260
White ¹	(80.7)	(89.9)	(77.3)	(72.8)	(73.3)
Black.....	(2.1)	(1.7)	(2.6)	(2.6)	(2.2)
Asian/Pacific Islander.....	(14.0)	(6.2)	(16.0)	(20.5)	(20.8)
Hispanic.....	(3.0)	(2.1)	(3.5)	(4.0)	(3.6)
American Indian/Alaskan Native.....	(0.2)	S	(0.6)	S	S
Health sciences	11,790	4,860	2,960	1,700	2,270
White ¹	(83.0)	(88.8)	(75.8)	(79.4)	(82.3)
Black.....	(5.7)	(4.2)	(9.3)	S	(6.6)
Asian/Pacific Islander.....	(7.2)	(3.7)	(10.0)	(12.3)	(7.2)
Hispanic.....	(3.5)	(2.5)	(4.2)	(4.8)	(3.9)
American Indian/Alaskan Native.....	(0.6)	S	S	S	S
Physical and related sciences	37,140	18,050	5,020	4,450	9,620
White ¹	(83.2)	(85.6)	(82.2)	(77.4)	(81.8)
Black.....	(1.9)	(1.2)	(4.1)	(2.1)	(2.0)
Asian/Pacific Islander.....	(11.9)	(9.1)	(10.9)	(18.3)	(14.7)
Hispanic.....	(2.6)	(3.5)	(2.5)	(2.0)	(1.2)
American Indian/Alaskan Native.....	(0.4)	(0.6)	S	S	S
Social sciences	47,240	27,960	8,280	3,940	7,050
White ¹	(83.2)	(85.4)	(75.1)	(80.0)	(85.9)
Black.....	(5.0)	(4.0)	(7.2)	(6.0)	(5.5)
Asian/Pacific Islander.....	(7.6)	(6.6)	(12.0)	(9.8)	(5.1)
Hispanic.....	(3.6)	(3.2)	(5.4)	(3.4)	(3.3)
American Indian/Alaskan Native.....	(0.6)	(0.7)	S	S	S

See explanatory information and SOURCE at end of table.

**Table 23. Employed doctoral scientists and engineers in universities and 4-year colleges,
by broad field of doctorate, race/ethnicity, and tenure status: 2001**

Page 2 of 2

Field of doctorate and race/ethniciy	Total	Tenured	Not tenured		Tenure not applicable
			On tenure track	Not on tenure track	
Psychology	30,190	13,490	4,300	4,020	8,390
White ¹	(87.7)	(90.8)	(84.8)	(84.3)	(85.8)
Black.....	(5.2)	(4.0)	(6.1)	(6.5)	(6.1)
Asian/Pacific Islander.....	(3.0)	(1.9)	(4.7)	(2.7)	(3.8)
Hispanic.....	(3.8)	(2.8)	(4.0)	(6.4)	(4.1)
American Indian/Alaskan Native.....	(0.3)	(0.4)	S	S	S
Engineering	27,110	15,710	4,690	2,350	4,360
White ¹	(76.0)	(76.0)	(75.2)	(80.0)	(74.6)
Black.....	(2.8)	(3.2)	(3.3)	S	(1.2)
Asian/Pacific Islander.....	(18.1)	(17.7)	(17.2)	(15.6)	(21.4)
Hispanic.....	(2.9)	(2.7)	(3.9)	(2.6)	(2.5)
American Indian/Alaskan Native.....	(0.3)	(0.3)	S	S	S

¹ 'Other' race included with 'white'.

KEY: S=Suppressed due to too few cases (fewer than 50 weighted cases).

NOTES: The race/ethnicity data shown are for all doctoral recipients, including temporary residents. Percentage distribution is shown in parentheses.

Numbers are rounded to nearest ten. Details may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 24. Employed doctoral scientists and engineers in universities and 4-year colleges, by broad field of doctorate, primary work activity, and secondary work activity: 2001

Page 1 of 2

Field of doctorate/primary work activity	Total number	Secondary work activity						
		Total	R&D ¹	Teaching	Management, sales and administration	Computer applications	Other activities	No secondary activity
[Percent]								
All fields.....	245,060	100.0	42.2	21.2	19.4	4.5	6.1	6.6
R&D ¹	95,690	100.0	25.0	40.8	19.6	6.1	4.3	4.2
Teaching.....	105,760	100.0	63.8	N/A	14.4	4.1	8.2	9.6
Management, sales, and administration.....	23,690	100.0	26.0	28.2	33.7	2.8	7.5	1.8
Computer applications.....	3,380	100.0	53.9	13.9	16.8	N/A	3.8	11.5
Other activities.....	16,530	100.0	24.7	34.3	30.4	0.9	1.7	8.0
Science.....	217,940	100.0	41.6	20.8	19.8	4.2	6.6	7.0
R&D ¹	85,490	100.0	25.0	40.0	20.0	5.8	4.6	4.6
Teaching.....	93,740	100.0	62.8	N/A	14.7	3.8	8.8	9.9
Management, sales, and administration.....	20,580	100.0	25.4	27.0	34.0	3.0	8.6	2.0
Computer applications.....	2,640	100.0	54.3	13.9	17.1	N/A	3.9	10.8
Other activities.....	15,500	100.0	24.3	34.3	31.0	0.4	1.7	8.2
Computer and information sciences	3,760	100.0	41.1	26.2	13.0	13.5	3.2	3.1
R&D ¹	1,310	100.0	20.1	60.7	8.8	6.8	S	S
Teaching.....	1,930	100.0	59.3	N/A	14.9	18.5	4.4	3.0
Management, sales, and administration....	410	100.0	19.7	40.0	14.5	14.9	S	S
Computer applications.....	60	100.0	S	S	S	N/A	S	S
Other activities.....	S	S	S	S	S	S	S	S
Mathematical sciences	14,980	100.0	46.7	18.1	12.8	6.8	5.0	10.5
R&D ¹	3,380	100.0	10.6	68.3	8.5	7.8	1.7	3.0
Teaching.....	10,240	100.0	61.8	N/A	10.6	7.2	6.3	14.0
Management, sales, and administration....	1,060	100.0	22.4	32.6	41.2	S	S	S
Computer applications.....	180	100.0	35.4	31.6	S	N/A	S	S
Other activities.....	120	100.0	S	S	66.8	S	S	S
Biological and agricultural sciences	72,850	100.0	38.5	22.6	23.0	3.1	5.7	7.1
R&D ¹	41,360	100.0	29.5	31.0	24.5	3.9	5.1	6.0
Teaching.....	18,830	100.0	62.4	N/A	17.4	2.3	7.8	10.1
Management, sales, and administration....	5,860	100.0	37.1	20.5	30.1	3.5	7.1	1.7
Computer applications.....	670	100.0	50.1	9.2	21.9	N/A	11.2	7.5
Other activities.....	6,130	100.0	26.5	38.6	23.4	S	1.2	10.2

See explanatory information and SOURCE at end of table.

Table 24. Employed doctoral scientists and engineers in universities and 4-year colleges, by broad field of doctorate, primary work activity, and secondary work activity: 2001

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Field of doctorate/primary work activity	Total number	Secondary work activity						
		Total	R&D ¹	Teaching	Management, sales and administration	Computer applications	Other activities	No secondary activity
		[Percent]						
Health sciences.....	11,790	100.0	38.3	20.9	22.0	4.1	10.3	4.4
R&D ¹	3,720	100.0	22.6	38.9	21.1	6.5	7.3	3.6
Teaching.....	5,570	100.0	57.0	N/A	18.4	3.4	14.5	6.6
Management, sales, and administration.....	1,650	100.0	15.2	38.2	36.2	3.2	7.2	S
Computer applications.....	50	100.0	S	S	S	N/A	S	S
Other activities.....	800	100.0	28.8	45.5	22.9	S	S	S
Physical and related sciences.....	37,140	100.0	45.1	17.6	18.6	7.5	4.3	6.9
R&D ¹	15,110	100.0	29.7	35.1	16.6	11.9	2.6	4.1
Teaching.....	16,220	100.0	62.5	N/A	16.5	4.8	6.1	10.1
Management, sales, and administration.....	3,420	100.0	29.8	23.6	33.4	5.2	5.7	2.2
Computer applications.....	1,090	100.0	61.6	8.7	15.0	N/A	S	14.5
Other activities.....	1,320	100.0	32.9	25.6	33.5	S	S	6.1
Social sciences.....	47,240	100.0	46.2	21.1	15.7	3.1	6.7	7.2
R&D ¹	11,930	100.0	15.0	60.7	12.2	5.0	3.8	3.4
Teaching.....	27,890	100.0	66.8	N/A	12.0	2.9	8.4	9.8
Management, sales, and administration.....	5,310	100.0	14.7	34.7	41.4	S	5.6	2.7
Computer applications.....	300	100.0	46.5	27.2	17.2	N/A	S	S
Other activities.....	1,810	100.0	26.7	43.5	21.1	S	3.4	5.3
Psychology.....	30,190	100.0	36.4	21.0	23.1	2.3	11.0	6.3
R&D ¹	8,680	100.0	16.6	49.2	20.9	4.1	7.1	2.2
Teaching.....	13,060	100.0	59.0	N/A	15.6	1.8	14.6	9.0
Management, sales, and administration.....	2,880	100.0	24.0	19.9	27.9	1.9	23.6	2.8
Computer applications.....	290	100.0	57.7	S	20.5	N/A	S	S
Other activities.....	5,280	100.0	18.4	27.7	42.8	S	1.9	8.5
Engineering.....	27,110	100.0	47.1	23.8	16.5	6.4	2.3	3.9
R&D ¹	10,200	100.0	25.1	47.7	16.2	8.3	1.8	0.8
Teaching.....	12,030	100.0	71.4	N/A	12.4	6.3	3.2	6.8
Management, sales, and administration.....	3,110	100.0	29.9	36.3	32.2	S	S	S
Computer applications.....	740	100.0	52.3	14.0	15.8	N/A	S	14.1
Other activities.....	1,030	100.0	30.0	34.5	21.0	8.3	S	5.1

¹ R&D includes basic or applied research, development and design.

KEY: S = Suppressed due to too few cases (fewer than 50 weighted cases).

N/A = Not Applicable. Same work activity cannot be reported as both primary and secondary activity except for 'R&D', 'Management', and "Other activities" because these categories include more than one type of work activity.

NOTES: Numbers are rounded to nearest ten. Details may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 25. Doctoral scientists and engineers, by occupation and employment status: 2001

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Occupation	All fields	Employed			Unemployed/ seeking work	Retired	Not employed/ not seeking work
		Total	Full time	Part time			
All occupations.....	656,030	574,890	528,350	46,540	7,520	59,050	14,570
Scientists.....	401,210	352,320	321,950	30,360	3,800	35,890	9,200
Computer and information scientists.....	37,410	34,660	33,240	1,420	670	1,530	550
Computer/information scientists.....	30,490	28,300	27,190	1,110	580	1,200	400
Postsecondary teachers, computer sciences.....	6,920	6,360	6,050	310	80	330	150
Mathematical scientists.....	24,590	21,900	20,130	1,770	260	2,190	250
Mathematical scientists.....	9,310	8,520	8,020	500	150	530	110
Postsecondary teachers, math sciences.....	15,280	13,390	12,110	1,270	110	1,660	130
Life and related scientists.....	123,680	107,850	102,500	5,340	1,040	11,380	3,400
Agricultural and food scientists.....	10,830	8,780	8,460	320	180	1,730	140
Biological scientists, excluding medical scientists.....	38,690	33,210	31,410	1,800	490	3,410	1,580
Medical scientists.....	31,650	28,670	27,480	1,190	270	1,800	910
Forestry and conservation scientists.....	1,360	1,120	990	130	S	210	S
Postsecondary teachers, biological sciences.....	25,400	22,190	20,760	1,420	S	2,690	470
Postsecondary teachers, other life and related sciences.....	15,750	13,880	13,390	490	50	1,540	280
Physical and related scientists.....	88,020	73,840	69,540	4,300	970	11,200	2,010
Chemists, except biochemistry.....	30,300	24,220	22,900	1,320	540	4,560	990
Earth scientists.....	10,430	8,910	8,450	470	100	1,250	170
Physics and astronomers.....	16,280	13,960	13,280	680	190	1,810	320
Other physical scientists.....	1,360	1,140	1,080	60	S	200	S
Postsecondary teachers, chemistry.....	13,150	11,220	10,500	720	S	1,550	340
Postsecondary teachers, physics.....	9,450	8,070	7,530	540	S	1,250	100
Postsecondary teachers, other physical and related sciences.....	7,050	6,330	5,810	520	80	580	60
Social scientists.....	54,120	47,200	42,600	4,600	440	5,420	1,070
Economists.....	8,890	7,520	6,990	530	250	960	160
Political scientists.....	1,750	1,430	1,250	180	S	310	S
Sociologists and anthropologists.....	4,690	3,800	3,230	570	S	670	180
Other social scientists.....	2,650	2,360	2,040	310	S	170	120
Postsecondary teachers, economics	9,720	8,870	8,220	650	S	780	60
Postsecondary teachers, political science	9,380	8,400	7,680	720	70	780	120
Postsecondary teachers, sociology	8,410	7,180	6,350	830	S	1,000	200
Postsecondary teachers, other social sciences	8,640	7,650	6,850	800	S	740	230
Psychologists.....	73,390	66,860	53,940	12,920	430	4,170	1,920
Psychologists.....	54,470	49,840	38,220	11,620	280	2,750	1,600
Postsecondary teachers, psychology.....	18,910	17,020	15,720	1,300	150	1,420	330
Engineers.....	86,080	75,420	71,620	3,810	1,180	8,200	1,280
Aerospace/aeronautical engineers.....	5,140	4,280	4,030	250	90	700	70
Chemical engineers.....	9,390	7,980	7,610	370	150	1,080	180
Civil and architectural engineers.....	4,440	4,000	3,720	290	50	350	S
Electrical and related engineers.....	17,990	16,110	15,510	600	230	1,340	310
Materials/metallurgical engineers.....	1,420	1,330	1,260	70	50	S	S
Mechanical engineers.....	9,490	8,320	7,880	440	160	850	170
Other engineers.....	19,260	16,530	15,440	1,090	360	2,040	330
Postsecondary teachers, engineering.....	18,940	16,870	16,170	690	80	1,830	170

See explanatory information and SOURCE at end of table.

Table 25. Doctoral scientists and engineers, by occupation and employment status: 2001

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Occupation	All fields	Employed			Unemployed/ seeking work	Retired	Not employed/ not seeking work
		Total	Full time	Part time			
Non-S&E occupations.....	168,740	147,150	134,780	12,370	2,550	14,960	4,090
Top/mid-level managers, administrators, etc.....	86,680	76,190	73,250	2,930	1,250	7,990	1,260
Health and related occupations.....	19,230	17,260	15,380	1,880	120	1,390	460
Teachers, except S&E postsecondary teachers.....	26,480	23,330	20,960	2,370	280	2,240	620
Technicians/technologists.....	7,960	7,030	6,430	600	220	560	160
Sales and marketing occupations.....	7,760	6,600	5,340	1,270	160	790	210
Other non-S&E occupations.....	20,630	16,740	13,420	3,320	520	2,000	1,370

KEY: S=Suppressed due to too few cases (fewer than 50 weighted cases). S&E=science and engineering.**NOTES:** If the respondent was unemployed during the survey reference period, occupation of last job was reported. Numbers are rounded to nearest 10.

Details may not add to total because of rounding. Excludes estimated 518 individuals who reported never having worked so could not be classified by occupation.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 26. Doctoral scientists and engineers, by broad occupation, employment status, and sex: 2001

Page 1 of 2

Employment status/occupation	Total	Male	Female
All occupations.....	656,030	490,000	166,030
Employed full time.....	528,350	402,660	125,690
Employed part time.....	46,540	25,120	21,420
Unemployed, seeking work.....	7,520	5,430	2,090
Retired.....	59,050	51,460	7,590
Not employed, not seeking work.....	14,570	5,330	9,240
Scientists.....	401,210	289,330	111,880
Employed full time.....	321,950	238,100	83,860
Employed part time.....	30,360	14,900	15,460
Unemployed, seeking work.....	3,800	2,600	1,200
Retired.....	35,890	30,940	4,940
Not employed, not seeking work.....	9,200	2,790	6,420
Computer and information scientists.....	37,410	32,110	5,300
Employed full time.....	33,240	28,890	4,350
Employed part time.....	1,420	1,060	370
Unemployed, seeking work.....	670	480	180
Retired.....	1,530	1,300	230
Not employed, not seeking work.....	550	390	170
Mathematical scientists.....	24,590	19,710	4,880
Employed full time.....	20,130	16,190	3,940
Employed part time.....	1,770	1,250	520
Unemployed, seeking work.....	260	190	60
Retired.....	2,190	2,020	160
Not employed, not seeking work.....	250	50	200
Life and related scientists.....	123,680	87,050	36,620
Employed full time.....	102,500	72,680	29,820
Employed part time.....	5,340	2,960	2,380
Unemployed, seeking work.....	1,040	650	390
Retired.....	11,380	9,810	1,570
Not employed, not seeking work.....	3,400	950	2,460

See explanatory information and SOURCE at end of table.

Table 26. Doctoral scientists and engineers, by broad occupation, employment status, and sex: 2001

Page 2 of 2

Employment status/occupation	Total	Male	Female
Physical and related scientists.....	88,020	76,030	11,990
Employed full time.....	69,540	60,200	9,340
Employed part time.....	4,300	3,360	950
Unemployed, seeking work.....	970	840	130
Retired.....	11,200	10,730	480
Not employed, not seeking work.....	2,010	900	1,110
Social scientists.....	54,120	38,060	16,060
Employed full time.....	42,600	30,080	12,520
Employed part time.....	4,600	2,730	1,860
Unemployed, seeking work.....	440	330	110
Retired.....	5,420	4,650	770
Not employed, not seeking work.....	1,070	260	800
Psychologists.....	73,390	36,360	37,030
Employed full time.....	53,940	30,050	23,890
Employed part time.....	12,920	3,540	9,390
Unemployed, seeking work.....	430	100	330
Retired.....	4,170	2,440	1,740
Not employed, not seeking work.....	1,920	240	1,690
Engineers.....	86,080	79,420	6,650
Employed full time.....	71,620	66,030	5,590
Employed part time.....	3,810	3,310	500
Unemployed, seeking work.....	1,180	1,110	70
Retired.....	8,200	8,090	110
Not employed, not seeking work.....	1,280	890	390
Non-S&E occupations.....	168,740	121,240	47,500
Employed full time.....	134,780	98,530	36,250
Employed part time.....	12,370	6,910	5,460
Unemployed, seeking work.....	2,550	1,720	820
Retired.....	14,960	12,420	2,540
Not employed, not seeking work.....	4,090	1,660	2,430

KEY: S=Suppressed due to too few cases (fewer than 50 weighted cases). S&E = science and engineering.

NOTES: If the respondent was unemployed during the survey reference period, occupation of last job was reported.

Numbers are rounded to nearest ten. Details may not add to total because of rounding.

Excludes 518 individuals who reported never having worked so could not be classified by occupation.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients.

Table 27. Doctoral scientists and engineers, by broad occupation, employment status, and race/ethnicity: 2001

Page 1 of 2

Employment status/occupation	Total	White ¹	Black	Asian/Pacific Islander	Hispanic	American Indian/Alaskan Native
All occupations.....	656,030	526,630	16,060	94,880	16,410	2,050
Employed full time.....	528,350	414,000	13,900	84,890	13,830	1,730
Employed part time.....	46,540	41,220	1,140	2,880	1,190	100
Unemployed, seeking work.....	7,520	5,550	170	1,550	220	S
Retired.....	59,050	54,050	600	3,500	740	150
Not employed, not seeking work.....	14,570	11,810	250	2,050	430	S
Scientists.....	401,210	327,330	9,390	52,050	11,070	1,380
Employed full time.....	321,950	256,780	8,090	46,610	9,300	1,170
Employed part time.....	30,360	27,270	690	1,520	840	S
Unemployed, seeking work.....	3,800	2,690	70	840	170	S
Retired.....	35,890	33,110	390	1,790	490	110
Not employed, not seeking work.....	9,200	7,480	150	1,290	270	S
Computer and information scientists.....	37,410	24,020	650	11,950	750	S
Employed full time.....	33,240	20,780	590	11,130	710	S
Employed part time.....	1,420	1,200	S	210	S	S
Unemployed, seeking work.....	670	440	S	210	S	S
Retired.....	1,530	1,270	S	180	S	S
Not employed, not seeking work.....	550	330	S	220	S	S
Mathematical scientists.....	24,590	19,260	570	4,010	710	S
Employed full time.....	20,130	15,470	500	3,530	590	S
Employed part time.....	1,770	1,420	S	290	S	S
Unemployed, seeking work.....	260	210	S	S	S	S
Retired.....	2,190	1,930	S	150	80	S
Not employed, not seeking work.....	250	230	S	S	S	S
Life and related scientists.....	123,680	98,990	2,310	18,700	3,340	340
Employed full time.....	102,500	80,280	2,040	17,020	2,890	280
Employed part time.....	5,340	4,900	120	210	110	S
Unemployed, seeking work.....	1,040	640	S	270	90	S
Retired.....	11,380	10,490	120	580	170	S
Not employed, not seeking work.....	3,400	2,690	S	610	80	S

See explanatory information and SOURCE at end of table.

Table 27. Doctoral scientists and engineers, by broad occupation, employment status, and race/ethnicity: 2001

Page 2 of 2

Employment status/occupation	Total	White ¹	Black	Asian/Pacific Islander	Hispanic	American Indian/Alaskan Native
Physical and related scientists.....	88,020	72,800	1,250	11,770	1,970	240
Employed full time.....	69,540	56,050	1,170	10,320	1,770	240
Employed part time.....	4,300	3,870	S	340	70	S
Unemployed, seeking work.....	970	730	S	210	S	S
Retired.....	11,200	10,580	S	540	50	S
Not employed, not seeking work.....	2,010	1,560	S	360	70	S
Social scientists.....	54,120	45,650	2,280	4,010	1,870	320
Employed full time.....	42,600	35,690	1,730	3,350	1,600	230
Employed part time.....	4,600	3,930	280	250	110	S
Unemployed, seeking work.....	440	340	S	60	S	S
Retired.....	5,420	4,790	190	300	80	60
Not employed, not seeking work.....	1,070	900	60	S	S	S
Psychologists.....	73,390	66,620	2,340	1,620	2,430	380
Employed full time.....	53,940	48,520	2,060	1,260	1,750	350
Employed part time.....	12,920	11,960	210	220	520	S
Unemployed, seeking work.....	430	320	S	50	S	S
Retired.....	4,170	4,050	S	50	70	S
Not employed, not seeking work.....	1,920	1,770	60	S	50	S
Engineers.....	86,080	59,390	1,250	23,290	1,950	190
Employed full time.....	71,620	47,150	1,130	21,450	1,730	160
Employed part time.....	3,810	3,250	80	430	S	S
Unemployed, seeking work.....	1,180	790	S	350	S	S
Retired.....	8,200	7,240	S	800	130	S
Not employed, not seeking work.....	1,280	960	S	260	S	S
Non-S&E occupations.....	168,740	139,910	5,420	19,540	3,390	490
Employed full time.....	134,780	110,070	4,690	16,820	2,800	400
Employed part time.....	12,370	10,700	380	930	300	50
Unemployed, seeking work.....	2,550	2,070	70	370	S	S
Retired.....	14,960	13,700	200	910	120	S
Not employed, not seeking work.....	4,090	3,370	80	500	120	S

¹'Other' race included with 'white'.

KEY: S=Suppressed due to too few cases (fewer than 50 weighted cases). S&E = science and engineering.

NOTES: If the respondent was unemployed during the survey reference period, occupation of last job was reported. The race/ethnicity data shown are for all doctoral recipients, including temporary residents. Numbers are rounded to nearest ten. Details may not add to total because of rounding. Excludes 518 individuals who reported never having worked so could not be classified by occupation.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 28. Selected employment characteristics of doctoral scientists and engineers, by occupation: 2001

Page 1 of 2

Occupation	Unemployment rate	Involuntarily out-of-field rate	Labor force participation rate
[percent]			
All occupations.....	1.3	4.1	88.8
Scientists.....	1.1	2.9	88.8
Computer and information scientists.....	1.9	12.3	94.4
Computer/information scientists.....	2.0	14.4	94.8
Postsecondary teachers, computer sciences.....	1.3	3.3	93.0
Mathematical scientists.....	1.2	2.1	90.1
Mathematical scientists.....	1.8	2.3	93.1
Postsecondary teachers, math sciences.....	0.8	1.9	88.3
Life and related scientists.....	1.0	1.0	88.0
Agricultural and food scientists.....	2.0	1.9	82.7
Biological scientists, excluding medical scientists.....	1.5	1.5	87.1
Medical scientists.....	0.9	0.4	91.4
Forestry and conservation scientists.....	S	S	82.8
Postsecondary teachers, biological sciences.....	S	1.0	87.6
Postsecondary teachers, other life and related sciences.....	0.4	S	88.5
Physical and related scientists.....	1.3	2.6	85.0
Chemists, except biochemistry.....	2.2	2.0	81.7
Earth scientists.....	1.1	3.9	86.4
Physics and astronomers.....	1.3	3.9	86.9
Other physical scientists.....	S	8.0	83.8
Postsecondary teachers, chemistry.....	S	1.2	85.6
Postsecondary teachers, physics.....	S	2.4	85.8
Postsecondary teachers, other physical and related sciences.....	1.2	2.4	90.9
Social scientists.....	0.9	2.6	88.0
Economists.....	3.2	1.0	87.4
Political scientists.....	S	S	81.9
Sociologists and anthropologists.....	S	1.7	81.9
Other social scientists.....	S	4.3	88.9
Postsecondary teachers, economics	S	1.0	91.3
Postsecondary teachers, political science	0.9	2.9	90.4
Postsecondary teachers, sociology	S	2.4	85.8
Postsecondary teachers, other social sciences	S	5.8	88.9
Psychologists.....	0.6	2.0	91.7
Psychologists.....	0.6	2.1	92.0
Postsecondary teachers, psychology.....	0.8	1.7	90.7
Engineers.....	1.5	2.8	89.0
Aerospace/aeronautical engineers.....	1.9	5.2	85.0
Chemical engineers.....	1.9	2.7	86.6
Civil and architectural engineers.....	1.3	3.7	91.4
Electrical and related engineers.....	1.4	3.6	90.8
Materials/metallurgical engineers.....	3.7	S	97.0
Mechanical engineers.....	1.9	2.6	89.3
Other engineers.....	2.2	2.8	87.7
Postsecondary teachers, engineering.....	0.5	1.2	89.5

See explanatory information and SOURCE at end of table.

Table 28. Selected employment characteristics of doctoral scientists and engineers, by occupation: 2001

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Occupation	Unemployment rate	Involuntarily out-of-field rate	Labor force participation rate
[percent]			
Non-S&E occupations.....	1.7	7.6	88.7
Top/mid-level managers, administrators, etc.....	1.6	5.1	89.3
Health and related occupations.....	0.7	6.6	90.4
Teachers, except S&E postsecondary teachers.....	1.2	3.9	89.2
Technicians/technologists.....	3.0	18.8	90.9
Sales and marketing occupations.....	2.4	21.3	87.1
Other non-S&E occupations.....	3.0	14.8	83.7

KEY: S=Suppressed due to too few cases (fewer than 50 weighted cases). S&E = science and engineering.

NOTES: If the respondent was unemployed during the survey reference period, occupation of last job was reported. Excludes estimated 518 individuals who reported never having worked so could not be classified by occupation. Labor force is defined as those employed (E) plus those unemployed and seeking work (U). Population (P) is defined as all S&E doctorate holders under age 76, residing in U.S. during the week of April 15, 2001, who earned their doctorate from U.S. institutions. The labor force participation rate (RLF) is the ratio of the labor force to the population: $RLF = (E+U)/P$. The unemployment rate (R_U) is the ratio of those who are unemployed but seeking employment (U) to the total labor force (E+U): $R_U = U/(E+U)$. Involuntary-out-of-field rate is the percent of employed individuals who reported they were working part-time exclusively because suitable full-time work was not available and/or working in an area not related to the first doctoral degree (in their principal job) at least partially because suitable work in the field was not available.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 29. Doctoral scientists and engineers, by occupation and sex: 2001

Page 1 of 2

Occupation	Total	Male	Female	Total	Male	Female
	Number		Percent			
All occupations.....	656,030	490,000	166,030	100.0	74.7	25.3
Scientists.....	401,210	289,330	111,880	100.0	72.1	27.9
Computer and information scientists.....	37,410	32,110	5,300	100.0	85.8	14.2
Computer/information scientists.....	30,490	26,210	4,270	100.0	86.0	14.0
Postsecondary teachers, computer sciences.....	6,920	5,900	1,020	100.0	85.2	14.7
Mathematical scientists.....	24,590	19,710	4,880	100.0	80.2	19.8
Mathematical scientists.....	9,310	7,010	2,300	100.0	75.3	24.7
Postsecondary teachers, math sciences.....	15,280	12,700	2,580	100.0	83.1	16.9
Life and related scientists.....	123,680	87,050	36,620	100.0	70.4	29.6
Agricultural and food scientists.....	10,830	9,210	1,610	100.0	85.1	14.9
Biological scientists, excluding medical scientists.....	38,690	26,420	12,270	100.0	68.3	31.7
Medical scientists.....	31,650	19,880	11,770	100.0	62.8	37.2
Forestry and conservation scientists.....	1,360	1,120	230	100.0	82.7	16.9
Postsecondary teachers, biological sciences.....	25,400	18,090	7,300	100.0	71.2	28.7
Postsecondary teachers, other life and related sciences.....	15,750	12,320	3,430	100.0	78.2	21.8
Physical and related scientists.....	88,020	76,030	11,990	100.0	86.4	13.6
Chemists, except biochemistry.....	30,300	25,600	4,700	100.0	84.5	15.5
Earth scientists.....	10,430	9,330	1,100	100.0	89.4	10.5
Physics and astronomers.....	16,280	15,150	1,140	100.0	93.0	7.0
Other physical scientists.....	1,360	1,140	220	100.0	83.6	16.2
Postsecondary teachers, chemistry.....	13,150	10,500	2,650	100.0	79.8	20.2
Postsecondary teachers, physics.....	9,450	8,540	920	100.0	90.3	9.7
Postsecondary teachers, other physical and related sciences.....	7,050	5,790	1,260	100.0	82.1	17.9
Social scientists.....	54,120	38,060	16,060	100.0	70.3	29.7
Economists.....	8,890	6,970	1,910	100.0	78.5	21.5
Political scientists.....	1,750	1,390	360	100.0	79.3	20.6
Sociologists and anthropologists.....	4,690	2,390	2,300	100.0	50.9	49.0
Other social scientists.....	2,650	1,360	1,290	100.0	51.2	48.7
Postsecondary teachers, economics	9,720	8,270	1,450	100.0	85.1	14.9
Postsecondary teachers, political science	9,380	7,060	2,320	100.0	75.3	24.7
Postsecondary teachers, sociology	8,410	5,300	3,110	100.0	63.0	37.0
Postsecondary teachers, other social sciences	8,640	5,330	3,310	100.0	61.7	38.3
Psychologists.....	73,390	36,360	37,030	100.0	49.5	50.5
Psychologists.....	54,470	25,630	28,850	100.0	47.0	53.0
Postsecondary teachers, psychology.....	18,910	10,730	8,180	100.0	56.7	43.3
Engineers.....	86,080	79,420	6,650	100.0	92.3	7.7
Aerospace/aeronautical engineers.....	5,140	4,860	270	100.0	94.7	5.3
Chemical engineers.....	9,390	8,490	910	100.0	90.4	9.7
Civil and architectural engineers.....	4,440	4,220	220	100.0	95.1	5.0
Electrical and related engineers.....	17,990	16,850	1,140	100.0	93.6	6.3
Materials/metallurgical engineers.....	1,420	1,150	270	100.0	80.9	19.0
Mechanical engineers.....	9,490	9,030	460	100.0	95.2	4.8
Other engineers.....	19,260	17,180	2,080	100.0	89.2	10.8
Postsecondary teachers, engineering.....	18,940	17,650	1,300	100.0	93.1	6.9

See explanatory information and SOURCE at end of table.

Table 29. Doctoral scientists and engineers, by occupation and sex: 2001

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Occupation	Total	Male	Female	Total	Male	Female
	Number			Percent		
	168,740	121,240	47,500	100.0	71.8	28.1
Non-S&E occupations.....	86,680	69,270	17,420	100.0	79.9	20.1
Top/mid-level managers, administrators, etc.....	19,230	12,290	6,930	100.0	63.9	36.0
Health and related occupations.....	26,480	13,400	13,080	100.0	50.6	49.4
Teachers, except S&E postsecondary teachers.....	7,960	6,960	1,000	100.0	87.4	12.6
Technicians/technologists.....	7,760	6,100	1,660	100.0	78.6	21.4
Sales and marketing occupations.....	20,630	13,220	7,410	100.0	64.1	35.9
Other non-S&E occupations.....						

KEY: S&E=science and engineering.**NOTES:** If the respondent was unemployed during the survey reference period, occupation of last job was reported. Numbers are rounded to nearest ten. Details may not add to total because of rounding. Excludes estimated 518 individuals who reported never having worked so could not be classified by occupation.**SOURCE:** National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 30. Doctoral scientists and engineers, by occupation and race/ethnicity: 2001

Page 1 of 2

Occupation	Total	White ¹	Black	Asian/Pacific Islander	Hispanic	American Indian/Alaskan Native
[Number]						
All occupations.....	656,030	526,630	16,060	94,880	16,410	2,050
Scientists.....	401,210	327,330	9,390	52,050	11,070	1,380
Computer and information scientists.....	37,410	24,020	650	11,950	750	S
Computer/information scientists.....	30,490	18,860	490	10,520	600	S
Postsecondary teachers, computer sciences.....	6,920	5,150	170	1,430	150	S
Mathematical scientists.....	24,590	19,260	570	4,010	710	S
Mathematical scientists.....	9,310	6,730	250	2,130	180	S
Postsecondary teachers, math sciences.....	15,280	12,530	320	1,870	530	S
Life and related scientists.....	123,680	98,990	2,310	18,700	3,340	340
Agricultural and food scientists.....	10,830	8,810	280	1,280	420	S
Biological scientists, excluding medical scientists.....	38,690	29,270	500	7,750	1,080	100
Medical scientists.....	31,650	23,580	620	6,460	890	100
Forestry and conservation scientists.....	1,360	1,270	S	S	S	S
Postsecondary teachers, biological sciences.....	25,400	22,470	580	1,670	640	S
Postsecondary teachers, other life and related sciences.....	15,750	13,590	330	1,540	290	S
Physical and related scientists.....	88,020	72,800	1,250	11,770	1,970	240
Chemists, except biochemistry.....	30,300	23,010	470	6,180	610	S
Earth scientists.....	10,430	9,040	60	1,060	250	S
Physics and astronomers.....	16,280	13,780	100	2,090	270	S
Other physical scientists.....	1,360	1,170	S	140	S	S
Postsecondary teachers, chemistry.....	13,150	11,350	410	870	430	90
Postsecondary teachers, physics.....	9,450	8,030	120	1,060	240	S
Postsecondary teachers, other physical and related sciences.....	7,050	6,430	70	370	130	50
Social scientists.....	54,120	45,650	2,280	4,010	1,870	320
Economists.....	8,890	7,060	180	1,200	400	S
Political scientists.....	1,750	1,470	50	70	100	60
Sociologists and anthropologists.....	4,690	4,170	230	100	180	S
Other social scientists.....	2,650	2,370	90	150	S	S
Postsecondary teachers, economics	9,720	7,950	360	1,200	200	S
Postsecondary teachers, political science	9,380	8,320	460	360	220	S
Postsecondary teachers, sociology	8,410	7,000	630	440	280	60
Postsecondary teachers, other social sciences	8,640	7,310	270	470	460	130
Psychologists.....	73,390	66,620	2,340	1,620	2,430	380
Psychologists.....	54,470	49,830	1,520	1,120	1,710	290
Postsecondary teachers, psychology.....	18,910	16,790	820	500	710	90
Engineers.....	86,080	59,390	1,250	23,290	1,950	190
Aerospace/aeronautical engineers.....	5,140	4,000	S	1,010	80	S
Chemical engineers.....	9,390	6,070	120	2,940	260	S
Civil and architectural engineers.....	4,440	2,950	100	1,220	150	S
Electrical and related engineers.....	17,990	11,140	210	6,290	290	50
Materials/metallurgical engineers.....	1,420	910	S	470	S	S
Mechanical engineers.....	9,490	5,990	100	3,270	120	S
Other engineers.....	19,260	13,890	140	4,760	430	S
Postsecondary teachers, engineering.....	18,940	14,430	520	3,330	600	60
Non-S&E occupations.....	168,740	139,910	5,420	19,540	3,390	490
Top/mid-level managers, administrators, etc.....	86,680	71,890	2,680	10,250	1,660	210
Health and related occupations.....	19,230	15,590	630	2,610	320	80
Teachers, except S&E postsecondary teachers.....	26,480	22,650	1,320	1,560	830	130
Technicians/technologists.....	7,960	5,480	60	2,330	90	S
Sales and marketing occupations.....	7,760	6,210	150	1,250	140	S
Other non-S&E occupations.....	20,630	18,100	570	1,540	360	70

See explanatory information and SOURCE at end of table.

Table 30. Doctoral scientists and engineers, by occupation and race/ethnicity: 2001

Page 2 of 2

Occupation	Total	White ¹	Black	Asian/Pacific Islander	Hispanic	American Indian/Alaskan Native
	[Percent]					
All occupations.....	100.0	80.3	2.4	14.5	2.5	0.3
Scientists.....	100.0	81.6	2.3	13.0	2.8	0.3
Computer and information scientists.....	100.0	64.2	1.7	31.9	2.0	S
Computer/information scientists.....	100.0	61.9	1.6	34.5	2.0	S
Postsecondary teachers, computer sciences.....	100.0	74.4	2.4	20.7	2.1	S
Mathematical scientists.....	100.0	78.3	2.3	16.3	2.9	S
Mathematical scientists.....	100.0	72.3	2.6	22.9	1.9	S
Postsecondary teachers, math sciences.....	100.0	82.0	2.1	12.3	3.4	S
Life and related scientists.....	100.0	80.0	1.9	15.1	2.7	0.3
Agricultural and food scientists.....	100.0	81.4	2.5	11.8	3.8	S
Biological scientists, excluding medical scientists.....	100.0	75.6	1.3	20.0	2.8	0.3
Medical scientists.....	100.0	74.5	2.0	20.4	2.8	0.3
Forestry and conservation scientists.....	100.0	93.7	S	S	S	S
Postsecondary teachers, biological sciences.....	100.0	88.5	2.3	6.6	2.5	S
Postsecondary teachers, other life and related sciences.....	100.0	86.3	2.1	9.8	1.8	S
Physical and related scientists.....	100.0	82.7	1.4	13.4	2.2	0.3
Chemists, except biochemistry.....	100.0	75.9	1.6	20.4	2.0	S
Earth scientists.....	100.0	86.6	0.6	10.2	2.4	S
Physics and astronomers.....	100.0	84.6	0.6	12.8	1.7	S
Other physical scientists.....	100.0	86.1	S	10.1	S	S
Postsecondary teachers, chemistry.....	100.0	86.3	3.2	6.6	3.3	0.7
Postsecondary teachers, physics.....	100.0	84.9	1.3	11.2	2.5	S
Postsecondary teachers, other physical and related sciences.....	100.0	91.2	0.9	5.3	1.9	0.7
Social scientists.....	100.0	84.3	4.2	7.4	3.5	0.6
Economists.....	100.0	79.5	2.0	13.5	4.5	S
Political scientists.....	100.0	83.8	3.0	4.2	5.9	3.3
Sociologists and anthropologists.....	100.0	88.8	4.9	2.2	3.8	S
Other social scientists.....	100.0	89.6	3.4	5.7	S	S
Postsecondary teachers, economics	100.0	81.8	3.7	12.4	2.0	S
Postsecondary teachers, political science	100.0	88.8	5.0	3.9	2.4	S
Postsecondary teachers, sociology	100.0	83.3	7.5	5.3	3.3	0.7
Postsecondary teachers, other social sciences	100.0	84.5	3.2	5.4	5.4	1.5
Psychologists.....	100.0	90.8	3.2	2.2	3.3	0.5
Psychologists.....	100.0	91.5	2.8	2.1	3.1	0.5
Postsecondary teachers, psychology.....	100.0	88.8	4.4	2.6	3.8	0.5
Engineers.....	100.0	69.0	1.5	27.1	2.3	0.2
Aerospace/aeronautical engineers.....	100.0	78.0	S	19.6	1.6	S
Chemical engineers.....	100.0	64.6	1.2	31.3	2.8	S
Civil and architectural engineers.....	100.0	66.5	2.3	27.6	3.5	S
Electrical and related engineers.....	100.0	61.9	1.2	35.0	1.6	0.3
Materials/metallurgical engineers.....	100.0	64.0	S	32.9	S	S
Mechanical engineers.....	100.0	63.1	1.0	34.5	1.2	S
Other engineers.....	100.0	72.1	0.7	24.7	2.2	S
Postsecondary teachers, engineering.....	100.0	76.2	2.8	17.6	3.1	0.3
Non-S&E occupations.....	100.0	82.9	3.2	11.6	2.0	0.3
Top/mid-level managers, administrators, etc.....	100.0	82.9	3.1	11.8	1.9	0.2
Health and related occupations.....	100.0	81.1	3.3	13.6	1.7	0.4
Teachers, except S&E postsecondary teachers.....	100.0	85.5	5.0	5.9	3.1	0.5
Technicians/technologists.....	100.0	68.8	0.8	29.2	1.1	S
Sales and marketing occupations.....	100.0	80.0	2.0	16.1	1.8	S
Other non-S&E occupations.....	100.0	87.7	2.8	7.5	1.7	0.3

¹'Other' race included with 'white'.

KEY: S=Suppressed due to too few cases (fewer than 50 weighted cases). S&E=science and engineering.

NOTES: The race/ethnicity data shown are for all doctoral recipients, including temporary residents. Numbers are rounded to nearest ten. Details may not add to total because of rounding. Excludes estimated 518 individuals who reported never having worked so could not be classified by occupation.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 31. Doctoral scientists and engineers employed as postdocs, by occupation: 2001

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Occupation	Number	Percent
Total on postdoc ¹	21,870	100.0
Scientists.....	19,960	91.3
Computer and information scientists.....	200	0.9
Computer/information scientists.....	190	0.9
Postsecondary teachers, computer sciences.....	S	S
Mathematical scientists.....	880	4.0
Mathematical scientists.....	320	1.5
Postsecondary teachers, math sciences.....	560	2.6
Life and related scientists.....	13,610	62.2
Agricultural and food scientists.....	500	2.3
Biological scientists, excluding medical scientists.....	7,440	34.0
Medical scientists.....	5,330	24.4
Forestry and conservation scientists.....	S	S
Postsecondary teachers, biological sciences.....	280	1.3
Postsecondary teachers, other life and related sciences.....	S	S
Physical and related scientists.....	3,320	15.2
Chemists, except biochemistry.....	1,160	5.3
Earth scientists.....	550	2.5
Physics and astronomers.....	1,400	6.4
Other physical scientists.....	S	S
Postsecondary teachers, chemistry.....	110	0.5
Postsecondary teachers, physics.....	S	S
Postsecondary teachers, other physical and related sciences.....	S	S
Social scientists.....	530	2.4
Economists.....	S	S
Political scientists.....	80	0.4
Sociologists and anthropologists.....	190	0.9
Other social scientists.....	130	0.6
Postsecondary teachers, economics	S	S
Postsecondary teachers, political science	S	S
Postsecondary teachers, sociology	S	S
Postsecondary teachers, other social sciences	S	S
Psychologists.....	1,420	6.5
Psychologists.....	1,350	6.2
Postsecondary teachers, psychology.....	60	0.3
Engineers.....	910	4.2
Aerospace/aeronautical engineers.....	S	S
Chemical engineers.....	120	0.5
Civil and architectural engineers.....	70	0.3
Electrical and related engineers.....	60	0.3
Materials/metallurgical engineers.....	S	S
Mechanical engineers.....	90	0.4
Other engineers.....	440	2.0
Postsecondary teachers, engineering.....	90	0.4

See explanatory information and SOURCE at end of table.

Table 31. Doctoral scientists and engineers employed as postdocs, by occupation: 2001

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Occupation	Number	Percent
Non-S&E occupations.....	1,000	4.6
Top/mid-level managers, administrators, etc.....	80	0.4
Health and related occupations.....	630	2.9
Teachers, except S&E postsecondary teachers.....	130	0.6
Technicians/technologists.....	100	0.5
Sales and marketing occupations.....	S	S
Other non-S&E occupations.....	70	0.3

¹ Postdoc is a temporary position awarded in academe, industry or government primarily for gaining additional education and training in research.

KEY: S=Suppressed due to too few cases (fewer than 50 weighted cases). S&E=science and engineering.

NOTES: The race/ethnicity data shown are for all doctoral recipients, including temporary residents.

Numbers are rounded to nearest ten. Details may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 32. Employed doctoral scientists and engineers, by occupation, race/ethnicity, and sex: 2001

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Occupation	Total			White ¹			Black		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
[Number]									
All occupations.....	574,890	427,770	147,110	455,220	337,870	117,340	15,050	9,320	5,730
Scientists.....	352,320	253,000	99,320	284,050	204,880	79,170	8,780	5,490	3,280
Computer and information scientists.....	34,660	29,940	4,720	21,980	19,200	2,780	600	530	80
Computer/information scientists.....	28,300	24,500	3,810	17,250	15,190	2,070	430	390	S
Postsecondary teachers, computer sciences.....	6,360	5,450	910	4,730	4,010	710	170	140	S
Mathematical scientists.....	21,900	17,450	4,460	16,890	13,840	3,050	540	350	200
Mathematical scientists.....	8,520	6,370	2,150	6,030	4,680	1,350	250	130	110
Postsecondary teachers, math sciences.....	13,390	11,080	2,310	10,860	9,160	1,700	300	210	80
Life and related scientists.....	107,850	75,640	32,210	85,180	60,810	24,370	2,150	1,380	770
Agricultural and food scientists.....	8,780	7,350	1,430	6,930	5,890	1,040	250	220	S
Biological scientists, excluding medical scientists.....	33,210	22,820	10,390	24,680	17,500	7,180	460	270	190
Medical scientists.....	28,670	18,030	10,640	21,080	13,390	7,690	600	380	210
Forestry and conservation scientists.....	1,120	910	210	1,060	870	190	S	S	S
Postsecondary teachers, biological sciences.....	22,190	15,640	6,550	19,540	13,890	5,640	510	310	190
Postsecondary teachers, other life and related sciences.....	13,880	10,890	2,990	11,890	9,280	2,620	330	200	130
Physical and related scientists.....	73,840	63,560	10,280	59,920	52,310	7,610	1,190	1,010	180
Chemists, except biochemistry.....	24,220	20,350	3,860	17,820	15,410	2,410	450	380	70
Earth scientists.....	8,910	7,940	980	7,600	6,780	820	60	60	S
Physics and astronomers.....	13,960	12,870	1,080	11,610	10,890	720	90	80	S
Other physical scientists.....	1,140	970	170	1,000	870	130	S	S	S
Postsecondary teachers, chemistry.....	11,220	9,070	2,150	9,480	7,730	1,740	400	340	50
Postsecondary teachers, physics.....	8,070	7,230	840	6,700	6,010	690	120	110	S
Postsecondary teachers, other physical and related sciences.....	6,330	5,130	1,200	5,710	4,610	1,100	60	S	S
Social scientists.....	47,200	32,820	14,380	39,620	27,560	12,060	2,020	1,360	660
Economists.....	7,520	5,800	1,720	5,970	4,590	1,380	140	120	S
Political scientists.....	1,430	1,100	330	1,170	920	250	50	S	S
Sociologists and anthropologists.....	3,800	1,900	1,890	3,370	1,730	1,630	190	70	120
Other social scientists.....	2,360	1,210	1,140	2,080	1,050	1,030	90	60	S
Postsecondary teachers, economics ..	8,870	7,520	1,360	7,190	6,170	1,030	360	270	90
Postsecondary teachers, political science ..	8,400	6,290	2,110	7,460	5,650	1,810	410	340	60
Postsecondary teachers, sociology ..	7,180	4,370	2,810	5,960	3,600	2,360	550	350	190
Postsecondary teachers, other social sciences ..	7,650	4,630	3,020	6,420	3,840	2,580	230	110	120
Psychologists.....	66,860	33,590	33,280	60,470	31,170	29,300	2,280	870	1,410
Psychologists.....	49,840	23,890	25,960	45,440	22,330	23,110	1,490	580	910
Postsecondary teachers, psychology.....	17,020	9,700	7,320	15,030	8,840	6,190	790	290	500
Engineers.....	75,420	69,340	6,080	50,400	46,440	3,960	1,200	1,060	140
Aerospace/aeronautical engineers.....	4,280	4,030	250	3,270	3,100	170	S	S	S
Chemical engineers.....	7,980	7,130	850	4,930	4,390	540	110	100	S
Civil and architectural engineers.....	4,000	3,790	220	2,660	2,460	200	100	100	S
Electrical and related engineers.....	16,110	15,060	1,060	9,520	9,060	460	210	190	S
Materials/metallurgical engineers.....	1,330	1,080	250	850	710	140	S	S	S
Mechanical engineers.....	8,320	7,950	370	5,110	4,900	210	100	90	S
Other engineers.....	16,530	14,660	1,870	11,550	10,310	1,240	140	90	S
Postsecondary teachers, engineering.....	16,870	15,630	1,230	12,520	11,510	1,010	490	440	S
Non-S&E occupations.....	147,150	105,440	41,710	120,770	86,550	34,210	5,070	2,760	2,310
Top/mid-level managers, administrators, etc.....	76,190	60,670	15,520	62,490	49,820	12,670	2,520	1,470	1,050
Health and related occupations.....	17,260	11,100	6,150	13,940	8,980	4,960	580	300	280
Teachers, except S&E postsecondary teachers.....	23,330	11,620	11,710	19,810	9,950	9,860	1,210	540	670
Technicians/technologists.....	7,030	6,140	890	4,660	4,240	420	60	50	S
Sales and marketing occupations.....	6,600	5,190	1,420	5,280	4,140	1,140	150	100	60
Other non-S&E occupations.....	16,740	10,720	6,020	14,590	9,420	5,170	540	300	240

See explanatory information and SOURCE at end of table.

Table 32. Employed doctoral scientists and engineers, by occupation, race/ethnicity, and sex: 2001

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Occupation	Asian/Pacific Islander			Hispanic			American Indian/ Alaskan Native		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
	[Number]								
All occupations.....	87,770	69,170	18,600	15,020	10,080	4,940	1,840	1,330	500
Scientists.....	48,130	35,140	12,990	10,140	6,580	3,560	1,220	900	320
Computer and information scientists.....	11,340	9,560	1,790	710	640	80	S	S	S
Computer/information scientists.....	10,020	8,400	1,630	570	500	70	S	S	S
Postsecondary teachers, computer sciences.....	1,320	1,160	160	140	140	S	S	S	S
Mathematical scientists.....	3,810	2,710	1,100	610	510	100	S	S	S
Mathematical scientists.....	2,080	1,430	650	140	120	S	S	S	S
Postsecondary teachers, math sciences.....	1,730	1,280	440	470	390	80	S	S	S
Life and related scientists.....	17,240	11,310	5,930	3,000	1,940	1,060	280	200	80
Agricultural and food scientists.....	1,160	930	220	390	260	130	S	S	S
Biological scientists, excluding medical scientists.....	7,070	4,380	2,680	920	630	290	80	S	S
Medical scientists.....	6,080	3,720	2,360	810	460	350	100	80	S
Forestry and conservation scientists.....	S	S	S	S	S	S	S	S	S
Postsecondary teachers, biological sciences.....	1,540	1,040	490	580	370	210	S	S	S
Postsecondary teachers, other life and related sciences.....	1,390	1,230	160	260	190	70	S	S	S
Physical and related scientists.....	10,660	8,460	2,200	1,840	1,570	270	240	220	S
Chemists, except biochemistry.....	5,380	4,090	1,290	540	450	90	S	S	S
Earth scientists.....	1,010	870	140	230	220	S	S	S	S
Physics and astronomers.....	1,940	1,630	310	270	240	S	S	S	S
Other physical scientists.....	120	90	S	S	S	S	S	S	S
Postsecondary teachers, chemistry.....	840	590	250	410	310	110	90	90	S
Postsecondary teachers, physics.....	1,010	870	130	240	230	S	S	S	S
Postsecondary teachers, other physical and related sciences...	370	320	50	130	110	S	50	S	S
Social scientists.....	3,600	2,600	1,000	1,710	1,080	630	250	220	S
Economists.....	1,050	790	260	350	300	50	S	S	S
Political scientists.....	70	S	S	100	60	S	50	S	S
Sociologists and anthropologists.....	100	S	80	130	70	60	S	S	S
Other social scientists.....	150	80	70	S	S	S	S	S	S
Postsecondary teachers, economics	1,120	920	200	180	140	S	S	S	S
Postsecondary teachers, political science	320	200	110	220	90	130	S	S	S
Postsecondary teachers, sociology	350	240	110	270	120	140	50	S	S
Postsecondary teachers, other social sciences	440	290	150	440	280	160	120	110	S
Psychologists.....	1,480	510	970	2,260	840	1,420	370	200	170
Psychologists.....	1,000	300	700	1,630	540	1,080	290	130	150
Postsecondary teachers, psychology.....	480	210	270	640	290	340	80	60	S
Engineers.....	21,880	20,140	1,740	1,780	1,550	220	160	140	S
Aerospace/aeronautical engineers.....	880	840	S	80	60	S	S	S	S
Chemical engineers.....	2,750	2,460	290	180	180	S	S	S	S
Civil and architectural engineers.....	1,080	1,070	S	150	150	S	S	S	S
Electrical and related engineers.....	6,060	5,520	540	290	250	S	S	S	S
Materials/metallurgical engineers.....	440	350	80	S	S	S	S	S	S
Mechanical engineers.....	3,010	2,860	150	90	80	S	S	S	S
Other engineers.....	4,410	3,930	480	410	310	90	S	S	S
Postsecondary teachers, engineering.....	3,250	3,110	140	550	510	S	60	60	S
Non-S&E occupations.....	17,760	13,890	3,870	3,100	1,950	1,150	450	290	160
Top/mid-level managers, administrators, etc.....	9,480	8,130	1,360	1,490	1,110	380	200	140	60
Health and related occupations.....	2,370	1,610	770	300	170	130	60	S	S
Teachers, except S&E postsecondary teachers.....	1,410	730	680	790	360	430	120	50	70
Technicians/technologists.....	2,230	1,760	470	80	80	S	S	S	S
Sales and marketing occupations.....	1,030	870	170	140	80	50	S	S	S
Other non-S&E occupations.....	1,230	800	430	310	160	150	60	S	S

See explanatory information and SOURCE at end of table.

Table 32. Employed doctoral scientists and engineers, by occupation, race/ethnicity, and sex: 2001

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Occupation	Total			White ¹			Black		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
[Percent]									
All occupations.....	100.0	74.4	25.6	100.0	74.2	25.8	100.0	61.9	38.1
Scientists.....	100.0	71.8	28.2	100.0	72.1	27.9	100.0	62.6	37.4
Computer and information scientists.....	100.0	86.4	13.6	100.0	87.4	12.6	100.0	87.3	12.7
Computer/information scientists.....	100.0	86.5	13.5	100.0	88.0	12.0	100.0	88.8	S
Postsecondary teachers, computer sciences.....	100.0	85.7	14.3	100.0	84.9	15.1	100.0	83.5	S
Mathematical scientists.....	100.0	79.7	20.3	100.0	81.9	18.1	100.0	63.9	36.1
Mathematical scientists.....	100.0	74.8	25.2	100.0	77.6	22.4	100.0	54.3	45.7
Postsecondary teachers, math sciences.....	100.0	82.7	17.3	100.0	84.3	15.7	100.0	71.9	28.1
Life and related scientists.....	100.0	70.1	29.9	100.0	71.4	28.6	100.0	64.3	35.7
Agricultural and food scientists.....	100.0	83.7	16.3	100.0	85.0	15.0	100.0	86.0	S
Biological scientists, excluding medical scientists.....	100.0	68.7	31.3	100.0	70.9	29.1	100.0	59.0	41.0
Medical scientists.....	100.0	62.9	37.1	100.0	63.5	36.5	100.0	64.0	36.0
Forestry and conservation scientists.....	100.0	81.1	18.9	100.0	81.6	18.4	100.0	S	S
Postsecondary teachers, biological sciences.....	100.0	70.5	29.5	100.0	71.1	28.9	100.0	61.7	38.3
Postsecondary teachers, other life and related sciences.....	100.0	78.5	21.5	100.0	78.0	22.0	100.0	60.2	39.8
Physical and related scientists.....	100.0	86.1	13.9	100.0	87.3	12.7	100.0	85.1	14.9
Chemists, except biochemistry.....	100.0	84.1	15.9	100.0	86.5	13.5	100.0	84.2	15.8
Earth scientists.....	100.0	89.1	10.9	100.0	89.2	10.8	100.0	96.6	S
Physics and astronomers.....	100.0	92.2	7.8	100.0	93.8	6.2	100.0	82.7	S
Other physical scientists.....	100.0	85.0	15.0	100.0	87.1	12.9	100.0	S	S
Postsecondary teachers, chemistry.....	100.0	80.8	19.2	100.0	81.6	18.4	100.0	86.3	13.7
Postsecondary teachers, physics.....	100.0	89.6	10.4	100.0	89.7	10.3	100.0	88.9	S
Postsecondary teachers, other physical and related sciences.....	100.0	81.1	18.9	100.0	80.8	19.2	100.0	S	S
Social scientists.....	100.0	69.5	30.5	100.0	69.6	30.4	100.0	67.4	32.6
Economists.....	100.0	77.1	22.9	100.0	76.8	23.2	100.0	84.0	S
Political scientists.....	100.0	76.7	23.3	100.0	78.6	21.4	100.0	S	S
Sociologists and anthropologists.....	100.0	50.2	49.8	100.0	51.5	48.5	100.0	38.1	61.9
Other social scientists.....	100.0	51.6	48.4	100.0	50.6	49.4	100.0	71.5	S
Postsecondary teachers, economics ..	100.0	84.7	15.3	100.0	85.7	14.3	100.0	75.5	24.5
Postsecondary teachers, political science ..	100.0	74.9	25.1	100.0	75.8	24.2	100.0	84.9	15.1
Postsecondary teachers, sociology ..	100.0	60.9	39.1	100.0	60.4	39.6	100.0	64.5	35.5
Postsecondary teachers, other social sciences ..	100.0	60.5	39.5	100.0	59.9	40.1	100.0	45.8	54.2
Psychologists.....	100.0	50.2	49.8	100.0	51.5	48.5	100.0	38.1	61.9
Psychologists.....	100.0	47.9	52.1	100.0	49.1	50.9	100.0	39.1	60.9
Postsecondary teachers, psychology ..	100.0	57.0	43.0	100.0	58.8	41.2	100.0	36.4	63.6
Engineers.....	100.0	91.9	8.1	100.0	92.1	7.9	100.0	88.5	11.5
Aerospace/aeronautical engineers.....	100.0	94.2	5.8	100.0	94.8	5.2	100.0	S	S
Chemical engineers.....	100.0	89.4	10.6	100.0	89.1	10.9	100.0	95.2	S
Civil and architectural engineers.....	100.0	94.5	5.5	100.0	92.4	7.6	100.0	100.0	S
Electrical and related engineers.....	100.0	93.5	6.5	100.0	95.2	4.8	100.0	91.4	S
Materials/metallurgical engineers.....	100.0	81.4	18.6	100.0	83.4	16.6	100.0	S	S
Mechanical engineers.....	100.0	95.5	4.5	100.0	95.9	4.1	100.0	95.8	S
Other engineers.....	100.0	88.7	11.3	100.0	89.3	10.7	100.0	68.3	S
Postsecondary teachers, engineering.....	100.0	92.7	7.3	100.0	92.0	8.0	100.0	90.6	S
Non-S&E occupations.....	100.0	71.7	28.3	100.0	71.7	28.3	100.0	54.5	45.5
Top/mid-level managers, administrators, etc.....	100.0	79.6	20.4	100.0	79.7	20.3	100.0	58.4	41.6
Health and related occupations.....	100.0	64.3	35.7	100.0	64.4	35.6	100.0	51.4	48.6
Teachers, except S&E postsecondary teachers.....	100.0	49.8	50.2	100.0	50.2	49.8	100.0	44.4	55.6
Technicians/technologists.....	100.0	87.3	12.7	100.0	91.0	9.0	100.0	96.5	S
Sales and marketing occupations.....	100.0	78.6	21.4	100.0	78.4	21.6	100.0	63.0	37.0
Other non-S&E occupations.....	100.0	64.0	36.0	100.0	64.6	35.4	100.0	55.1	44.9

See explanatory information and SOURCE at end of table.

Table 32. Employed doctoral scientists and engineers, by occupation, race/ethnicity, and sex: 2001

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Occupation	Asian/Pacific Islander			Hispanic			American Indian/ Alaskan Native		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
	[Percent]								
All occupations.....	100.0	78.8	21.2	100.0	67.1	32.9	100.0	72.7	27.3
Scientists.....	100.0	73.0	27.0	100.0	64.9	35.1	100.0	74.0	26.0
Computer and information scientists.....	100.0	84.3	15.7	100.0	89.5	10.5	100.0	S	S
Computer/information scientists.....	100.0	83.8	16.2	100.0	88.4	11.6	100.0	S	S
Postsecondary teachers, computer sciences.....	100.0	87.8	12.2	100.0	94.0	S	100.0	S	S
Mathematical scientists.....	100.0	71.2	28.8	100.0	82.9	17.1	100.0	S	S
Mathematical scientists.....	100.0	68.7	31.3	100.0	81.4	S	100.0	S	S
Postsecondary teachers, math sciences.....	100.0	74.3	25.7	100.0	83.3	16.7	100.0	S	S
Life and related scientists.....	100.0	65.6	34.4	100.0	64.7	35.3	100.0	71.4	28.6
Agricultural and food scientists.....	100.0	80.7	19.3	100.0	67.0	33.0	100.0	S	S
Biological scientists, excluding medical scientists.....	100.0	62.0	38.0	100.0	68.6	31.4	100.0	S	S
Medical scientists.....	100.0	61.1	38.9	100.0	57.1	42.9	100.0	81.7	S
Forestry and conservation scientists.....	100.0	S	S	100.0	S	S	100.0	S	S
Postsecondary teachers, biological sciences.....	100.0	67.8	32.2	100.0	63.2	36.8	100.0	S	S
Postsecondary teachers, other life and related sciences.....	100.0	88.4	11.6	100.0	71.3	28.7	100.0	S	S
Physical and related scientists.....	100.0	79.3	20.7	100.0	85.2	14.8	100.0	91.1	S
Chemists, except biochemistry.....	100.0	76.0	24.0	100.0	83.7	16.3	100.0	S	S
Earth scientists.....	100.0	86.2	13.8	100.0	93.7	S	100.0	S	S
Physics and astronomers.....	100.0	83.9	16.1	100.0	89.2	S	100.0	S	S
Other physical scientists.....	100.0	74.6	S	100.0	S	S	100.0	S	S
Postsecondary teachers, chemistry.....	100.0	70.3	29.7	100.0	74.4	25.6	100.0	98.2	S
Postsecondary teachers, physics.....	100.0	87.0	13.0	100.0	97.3	S	100.0	S	S
Postsecondary teachers, other physical and related sciences...	100.0	86.4	13.6	100.0	84.0	S	100.0	S	S
Social scientists.....	100.0	72.2	27.8	100.0	63.3	36.7	100.0	86.3	S
Economists.....	100.0	75.1	24.9	100.0	85.1	14.9	100.0	S	S
Political scientists.....	100.0	S	S	100.0	59.8	S	100.0	S	S
Sociologists and anthropologists.....	100.0	S	75.1	100.0	53.3	46.7	100.0	S	S
Other social scientists.....	100.0	50.6	49.4	100.0	S	S	100.0	S	S
Postsecondary teachers, economics	100.0	82.2	17.8	100.0	77.8	S	100.0	S	S
Postsecondary teachers, political science	100.0	64.4	35.6	100.0	41.4	58.6	100.0	S	S
Postsecondary teachers, sociology	100.0	68.7	31.3	100.0	47.2	52.8	100.0	S	S
Postsecondary teachers, other social sciences	100.0	66.5	33.5	100.0	63.8	36.2	100.0	89.9	S
Psychologists.....	100.0	34.5	65.5	100.0	37.0	63.0	100.0	53.4	46.6
Psychologists.....	100.0	29.7	70.3	100.0	33.5	66.5	100.0	46.8	53.2
Postsecondary teachers, psychology.....	100.0	44.6	55.4	100.0	46.2	53.8	100.0	76.3	S
Engineers.....	100.0	92.1	7.9	100.0	87.4	12.6	100.0	85.8	S
Aerospace/aeronautical engineers.....	100.0	95.4	S	100.0	66.2	S	100.0	S	S
Chemical engineers.....	100.0	89.4	10.6	100.0	98.0	S	100.0	S	S
Civil and architectural engineers.....	100.0	98.8	S	100.0	97.3	S	100.0	S	S
Electrical and related engineers.....	100.0	91.1	8.9	100.0	86.1	S	100.0	S	S
Materials/metallurgical engineers.....	100.0	81.0	19.0	100.0	S	S	100.0	S	S
Mechanical engineers.....	100.0	94.9	5.1	100.0	95.0	S	100.0	S	S
Other engineers.....	100.0	89.1	10.9	100.0	77.0	23.0	100.0	S	S
Postsecondary teachers, engineering.....	100.0	95.8	4.2	100.0	92.5	S	100.0	100.0	S
Non-S&E occupations.....	100.0	78.2	21.8	100.0	62.8	37.2	100.0	64.4	35.6
Top/mid-level managers, administrators, etc.....	100.0	85.7	14.3	100.0	74.3	25.7	100.0	70.8	29.2
Health and related occupations.....	100.0	67.7	32.3	100.0	56.5	43.5	100.0	S	S
Teachers, except S&E postsecondary teachers.....	100.0	51.6	48.4	100.0	45.3	54.7	100.0	43.9	56.1
Technicians/technologists.....	100.0	79.1	20.9	100.0	94.3	S	100.0	S	S
Sales and marketing occupations.....	100.0	83.9	16.1	100.0	61.0	39.0	100.0	S	S
Other non-S&E occupations.....	100.0	64.8	35.2	100.0	50.9	49.1	100.0	S	S

¹ 'Other' race included with 'white'.

KEY: S=Suppressed due to too few cases (fewer than 50 weighted cases). S&E=science and engineering.

NOTES: The race/ethnicity data shown are for all doctoral recipients, including temporary residents. Numbers are rounded to nearest ten. Details may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 33. Employed doctoral scientists and engineers, by occupation and citizenship status: 2001

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Occupation	Total	U.S. citizen			Non-U.S. citizen		
		Total	Native born	Naturalized	Total	Permanent resident	Temporary resident
[Number]							
All occupations.....	574,890	518,110	440,940	77,170	56,780	39,980	16,800
Scientists.....	352,320	316,700	277,120	39,580	35,610	24,480	11,140
Computer and information scientists.....	34,660	27,080	19,910	7,170	7,580	5,360	2,220
Computer/information scientists.....	28,300	21,550	15,780	5,770	6,750	4,770	1,970
Postsecondary teachers, computer sciences.....	6,360	5,530	4,130	1,400	830	590	240
Mathematical scientists.....	21,900	18,610	15,570	3,030	3,290	2,150	1,140
Mathematical scientists.....	8,520	6,930	5,480	1,450	1,580	1,060	530
Postsecondary teachers, math sciences.....	13,390	11,680	10,100	1,580	1,710	1,100	610
Life and related scientists.....	107,850	95,580	83,380	12,200	12,260	8,180	4,080
Agricultural and food scientists.....	8,780	7,780	6,730	1,050	1,000	510	490
Biological scientists, excluding medical scientists.....	33,210	27,970	24,200	3,770	5,240	3,460	1,780
Medical scientists.....	28,670	24,390	20,180	4,210	4,280	2,700	1,580
Forestry and conservation scientists.....	1,120	1,120	1,090	S	S	S	S
Postsecondary teachers, biological sciences.....	22,190	21,210	19,490	1,720	980	830	160
Postsecondary teachers, other life and related sciences.....	13,880	13,130	11,690	1,440	750	680	70
Physical and related scientists.....	73,840	67,030	57,310	9,720	6,820	4,590	2,230
Chemists, except biochemistry.....	24,220	21,500	17,540	3,960	2,720	1,620	1,100
Earth scientists.....	8,910	7,980	7,080	900	940	570	360
Physics and astronomers.....	13,960	12,410	10,580	1,840	1,540	1,040	510
Other physical scientists.....	1,140	1,080	990	90	60	S	S
Postsecondary teachers, chemistry.....	11,220	10,610	9,580	1,030	610	460	150
Postsecondary teachers, physics.....	8,070	7,500	6,020	1,480	570	490	80
Postsecondary teachers, other physical and related sciences.....	6,330	5,950	5,520	430	380	360	S
Social scientists.....	47,200	42,880	38,500	4,380	4,320	3,120	1,200
Economists.....	7,520	6,300	5,570	730	1,220	670	550
Political scientists.....	1,430	1,390	1,280	110	S	S	S
Sociologists and anthropologists.....	3,800	3,700	3,490	200	100	80	S
Other social scientists.....	2,360	2,280	2,120	160	80	80	S
Postsecondary teachers, economics	8,870	7,520	6,370	1,150	1,350	960	390
Postsecondary teachers, political science	8,400	7,940	7,110	830	460	410	50
Postsecondary teachers, sociology	7,180	6,740	6,090	650	440	370	70
Postsecondary teachers, other social sciences	7,650	7,020	6,470	550	630	530	100
Psychologists.....	66,860	65,520	62,450	3,070	1,340	1,070	270
Psychologists.....	49,840	48,930	46,580	2,350	920	790	130
Postsecondary teachers, psychology.....	17,020	16,590	15,870	720	430	280	140
Engineers.....	75,420	62,490	44,510	17,980	12,930	8,860	4,070
Aerospace/aeronautical engineers.....	4,280	4,050	3,020	1,030	230	180	S
Chemical engineers.....	7,980	6,370	4,530	1,840	1,610	1,270	340
Civil and architectural engineers.....	4,000	3,000	1,930	1,060	1,010	710	300
Electrical and related engineers.....	16,110	12,290	8,380	3,910	3,820	2,400	1,430
Materials/metallurgical engineers.....	1,330	1,070	820	250	260	170	100
Mechanical engineers.....	8,320	6,730	4,380	2,350	1,590	1,120	470
Other engineers.....	16,530	13,850	10,770	3,080	2,680	1,590	1,090
Postsecondary teachers, engineering.....	16,870	15,130	10,690	4,440	1,730	1,430	300
Non-S&E occupations.....	147,150	138,910	119,300	19,610	8,240	6,640	1,590
Top/mid-level managers, administrators, etc.....	76,190	72,660	61,660	11,000	3,530	2,920	610
Health and related occupations.....	17,260	16,380	13,840	2,540	880	680	200
Teachers, except S&E postsecondary teachers.....	23,330	22,060	19,920	2,130	1,280	1,030	250
Technicians/technologists.....	7,030	5,620	4,250	1,370	1,410	1,020	390
Sales and marketing occupations.....	6,600	6,030	4,910	1,120	570	500	70
Other non-S&E occupations.....	16,740	16,160	14,710	1,450	580	490	90

See explanatory information and SOURCE at end of table.

Table 33. Employed doctoral scientists and engineers, by occupation and citizenship status: 2001

Page 2 of 2

Occupation	Total	U.S. citizen			Non-U.S. citizen		
		Total	Native born	Naturalized	Total	Permanent resident	Temporary resident
	[Percent]						
All occupations.....	100.0	90.1	76.7	13.4	9.9	7.0	2.9
Scientists.....	100.0	89.9	78.7	11.2	10.1	6.9	3.2
Computer and information scientists.....	100.0	78.1	57.4	20.7	21.9	15.5	6.4
Computer/information scientists.....	100.0	76.2	55.8	20.4	23.8	16.9	7.0
Postsecondary teachers, computer sciences.....	100.0	86.9	64.9	22.0	13.1	9.3	3.8
Mathematical scientists.....	100.0	85.0	71.1	13.8	15.0	9.8	5.2
Mathematical scientists.....	100.0	81.4	64.3	17.1	18.6	12.4	6.2
Postsecondary teachers, math sciences.....	100.0	87.2	75.4	11.8	12.8	8.2	4.6
Life and related scientists.....	100.0	88.6	77.3	11.3	11.4	7.6	3.8
Agricultural and food scientists.....	100.0	88.6	76.6	11.9	11.4	5.8	5.6
Biological scientists, excluding medical scientists.....	100.0	84.2	72.9	11.3	15.8	10.4	5.4
Medical scientists.....	100.0	85.1	70.4	14.7	14.9	9.4	5.5
Forestry and conservation scientists.....	100.0	100.0	97.4	S	S	S	S
Postsecondary teachers, biological sciences.....	100.0	95.6	87.8	7.7	4.4	3.7	0.7
Postsecondary teachers, other life and related sciences.....	100.0	94.6	84.2	10.4	5.4	4.9	0.5
Physical and related scientists.....	100.0	90.8	77.6	13.2	9.2	6.2	3.0
Chemists, except biochemistry.....	100.0	88.8	72.4	16.3	11.2	6.7	4.5
Earth scientists.....	100.0	89.5	79.4	10.1	10.5	6.4	4.1
Physics and astronomers.....	100.0	89.0	75.8	13.2	11.0	7.4	3.6
Other physical scientists.....	100.0	94.8	86.5	8.3	5.2	S	S
Postsecondary teachers, chemistry.....	100.0	94.6	85.4	9.1	5.4	4.1	1.4
Postsecondary teachers, physics.....	100.0	92.9	74.6	18.3	7.1	6.1	1.0
Postsecondary teachers, other physical and related sciences.....	100.0	94.0	87.3	6.7	6.0	5.8	S
Social scientists.....	100.0	90.8	81.6	9.3	9.2	6.6	2.5
Economists.....	100.0	83.8	74.1	9.7	16.2	8.9	7.3
Political scientists.....	100.0	96.7	89.2	7.5	S	S	S
Sociologists and anthropologists.....	100.0	97.3	91.9	5.4	2.7	2.1	S
Other social scientists.....	100.0	96.6	89.8	6.8	3.4	3.4	S
Postsecondary teachers, economics	100.0	84.8	71.8	13.0	15.2	10.8	4.4
Postsecondary teachers, political science	100.0	94.5	84.7	9.9	5.5	4.8	0.6
Postsecondary teachers, sociology	100.0	93.9	84.8	9.0	6.1	5.2	0.9
Postsecondary teachers, other social sciences	100.0	91.8	84.6	7.2	8.2	6.9	1.3
Psychologists.....	100.0	98.0	93.4	4.6	2.0	1.6	0.4
Psychologists.....	100.0	98.2	93.4	4.7	1.8	1.6	0.3
Postsecondary teachers, psychology.....	100.0	97.5	93.3	4.2	2.5	1.7	0.8
Engineers.....	100.0	82.9	59.0	23.8	17.1	11.8	5.4
Aerospace/aeronautical engineers.....	100.0	94.7	70.6	24.1	5.3	4.2	S
Chemical engineers.....	100.0	79.9	56.8	23.1	20.1	15.9	4.2
Civil and architectural engineers.....	100.0	74.8	48.2	26.6	25.2	17.8	7.4
Electrical and related engineers.....	100.0	76.3	52.0	24.3	23.7	14.9	8.8
Materials/metallurgical engineers.....	100.0	80.3	61.4	18.9	19.7	12.5	7.2
Mechanical engineers.....	100.0	80.9	52.6	28.3	19.1	13.4	5.6
Other engineers.....	100.0	83.8	65.1	18.7	16.2	9.6	6.6
Postsecondary teachers, engineering.....	100.0	89.7	63.4	26.3	10.3	8.5	1.8
Non-S&E occupations.....	100.0	94.4	81.1	13.3	5.6	4.5	1.1
Top/mid-level managers, administrators, etc.....	100.0	95.4	80.9	14.4	4.6	3.8	0.8
Health and related occupations.....	100.0	94.9	80.2	14.7	5.1	3.9	1.1
Teachers, except S&E postsecondary teachers.....	100.0	94.5	85.4	9.1	5.5	4.4	1.1
Technicians/technologists.....	100.0	80.0	60.5	19.5	20.0	14.5	5.5
Sales and marketing occupations.....	100.0	91.3	74.4	16.9	8.7	7.6	1.0
Other non-S&E occupations.....	100.0	96.5	87.8	8.7	3.5	2.9	0.5

KEY: S=Suppressed due to too few cases (fewer than 50 weighted cases). S&E=science and engineering.

NOTES: Numbers are rounded to nearest ten. Details may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 34. Employed doctoral scientists and engineers, by occupation and age: 2001

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Occupation	Total	Under 35	35-39	40-44	45-49	50-54	55-59	60-64	65-75
[Number]									
All occupations.....	574,890	54,880	80,000	87,220	92,620	90,670	84,810	53,320	31,380
Scientists.....	352,320	36,820	52,350	55,460	57,850	53,570	48,010	30,000	18,260
Computer and information scientists.....	34,660	4,650	6,650	6,060	5,290	4,820	4,510	2,030	670
Computer/information scientists.....	28,300	4,160	5,880	5,140	4,250	3,720	3,380	1,320	460
Postsecondary teachers, computer sciences.....	6,360	490	770	920	1,040	1,100	1,130	710	210
Mathematical scientists.....	21,900	2,680	3,220	3,000	3,090	3,020	2,960	2,610	1,320
Mathematical scientists.....	8,520	1,100	1,510	1,420	1,210	1,300	1,150	660	170
Postsecondary teachers, math sciences.....	13,390	1,580	1,700	1,590	1,880	1,720	1,810	1,950	1,150
Life and related scientists.....	107,850	12,930	17,490	18,420	19,630	14,380	12,630	7,620	4,740
Agricultural and food scientists.....	8,780	500	1,430	1,490	2,090	1,210	900	810	350
Biological scientists, excluding medical scientists.....	33,210	6,440	7,060	5,490	5,060	3,740	2,800	1,540	1,060
Medical scientists.....	28,670	4,630	5,360	5,220	5,410	3,280	2,510	1,270	990
Forestry and conservation scientists.....	1,120	S	90	260	310	140	120	130	S
Postsecondary teachers, biological sciences.....	22,190	930	2,540	3,850	3,810	3,350	4,240	2,180	1,280
Postsecondary teachers, other life and related sciences.....	13,880	370	1,010	2,110	2,950	2,660	2,060	1,690	1,030
Physical and related scientists.....	73,840	7,550	11,590	12,070	11,390	9,410	9,590	7,470	4,780
Chemists, except biochemistry.....	24,220	3,200	4,370	4,360	4,180	2,810	2,650	1,480	1,170
Earth scientists.....	8,910	550	1,360	1,150	1,560	1,700	1,330	800	480
Physics and astronomers.....	13,960	1,770	2,010	2,230	2,030	1,660	1,720	1,470	1,080
Other physical scientists.....	1,140	90	140	140	170	140	160	180	120
Postsecondary teachers, chemistry.....	11,220	1,100	2,000	1,440	1,490	1,110	1,700	1,600	780
Postsecondary teachers, physics.....	8,070	530	990	1,390	780	1,350	1,110	1,220	690
Postsecondary teachers, other physical and related sciences.....	6,330	290	720	1,370	1,180	640	930	730	460
Social scientists.....	47,200	4,040	5,620	6,530	7,380	8,400	7,590	4,830	2,810
Economists.....	7,520	1,020	1,220	1,270	1,240	910	940	550	360
Political scientists.....	1,430	80	230	140	190	270	140	220	160
Sociologists and anthropologists.....	3,800	230	430	500	740	980	640	140	140
Other social scientists.....	2,360	280	250	280	360	650	320	210	S
Postsecondary teachers, economics	8,870	760	860	1,210	1,350	1,800	1,250	1,030	600
Postsecondary teachers, political science	8,400	610	1,180	1,250	1,230	1,270	1,590	860	410
Postsecondary teachers, sociology	7,180	630	640	890	980	1,280	1,190	780	770
Postsecondary teachers, other social sciences	7,650	420	810	990	1,270	1,230	1,510	1,060	360
Psychologists.....	66,860	4,970	7,780	9,380	11,080	13,540	10,740	5,440	3,940
Psychologists.....	49,840	3,300	5,460	7,050	8,850	10,630	7,920	3,760	2,860
Postsecondary teachers, psychology.....	17,020	1,670	2,320	2,330	2,230	2,900	2,820	1,680	1,080
Engineers.....	75,420	9,940	13,130	13,510	10,130	8,540	8,650	6,990	4,520
Aerospace/aeronautical engineers.....	4,280	470	580	740	450	760	520	470	280
Chemical engineers.....	7,980	1,480	1,550	1,640	970	760	720	480	380
Civil and architectural engineers.....	4,000	350	610	750	610	450	440	640	160
Electrical and related engineers.....	16,110	2,810	3,460	2,750	1,610	1,410	1,880	1,600	600
Materials/metallurgical engineers.....	1,330	120	250	310	310	110	140	90	S
Mechanical engineers.....	8,320	1,010	1,540	1,560	1,240	940	980	580	470
Other engineers.....	16,530	2,280	3,000	2,910	2,420	1,790	1,960	1,270	910
Postsecondary teachers, engineering.....	16,870	1,420	2,140	2,860	2,520	2,330	2,010	1,860	1,730
Non-S&E occupations.....	147,150	8,110	14,510	18,250	24,630	28,570	28,160	16,330	8,600
Top/mid-level managers, administrators, etc.....	76,190	2,580	6,560	8,810	13,400	15,670	16,170	9,550	3,450
Health and related occupations.....	17,260	1,600	2,230	2,560	2,940	2,590	3,010	1,280	1,040
Teachers, except S&E postsecondary teachers.....	23,330	1,170	1,930	2,690	4,260	4,980	4,070	2,630	1,610
Technicians/technologists.....	7,030	900	1,350	1,230	1,080	990	850	450	180
Sales and marketing occupations.....	6,600	490	540	1,090	820	1,500	900	700	560
Other non-S&E occupations.....	16,740	1,370	1,910	1,870	2,130	2,830	3,160	1,710	1,750

See explanatory information and SOURCE at end of table.

Table 34. Employed doctoral scientists and engineers, by occupation and age: 2001

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Occupation	Total	Under 35	35-39	40-44	45-49	50-54	55-59	60-64	[Percent]	
									65-75	
All occupations.....	100.0	9.5	13.9	15.2	16.1	15.8	14.8	9.3	5.5	
Scientists.....	100.0	10.5	14.9	15.7	16.4	15.2	13.6	8.5	5.2	
Computer and information scientists.....	100.0	13.4	19.2	17.5	15.3	13.9	13.0	5.9	1.9	
Computer/information scientists.....	100.0	14.7	20.8	18.2	15.0	13.2	11.9	4.7	1.6	
Postsecondary teachers, computer sciences.....	100.0	7.7	12.2	14.4	16.4	17.2	17.8	11.1	3.2	
Mathematical scientists.....	100.0	12.3	14.7	13.7	14.1	13.8	13.5	11.9	6.0	
Mathematical scientists.....	100.0	13.0	17.8	16.6	14.2	15.2	13.5	7.7	2.0	
Postsecondary teachers, math sciences.....	100.0	11.8	12.7	11.9	14.0	12.9	13.5	14.6	8.6	
Life and related scientists.....	100.0	12.0	16.2	17.1	18.2	13.3	11.7	7.1	4.4	
Agricultural and food scientists.....	100.0	5.7	16.3	17.0	23.8	13.8	10.2	9.3	4.0	
Biological scientists, excluding medical scientists.....	100.0	19.4	21.3	16.5	15.3	11.3	8.4	4.7	3.2	
Medical scientists.....	100.0	16.2	18.7	18.2	18.9	11.4	8.7	4.4	3.5	
Forestry and conservation scientists.....	100.0	S	8.0	22.9	27.5	12.5	11.1	11.4	S	
Postsecondary teachers, biological sciences.....	100.0	4.2	11.5	17.4	17.2	15.1	19.1	9.8	5.8	
Postsecondary teachers, other life and related sciences.....	100.0	2.7	7.2	15.2	21.3	19.2	14.8	12.2	7.4	
Physical and related scientists.....	100.0	10.2	15.7	16.3	15.4	12.7	13.0	10.1	6.5	
Chemists, except biochemistry.....	100.0	13.2	18.0	18.0	17.3	11.6	10.9	6.1	4.8	
Earth scientists.....	100.0	6.2	15.2	12.9	17.5	19.0	14.9	8.9	5.4	
Physics and astronomers.....	100.0	12.7	14.4	15.9	14.5	11.9	12.3	10.5	7.7	
Other physical scientists.....	100.0	8.0	12.5	12.0	14.8	12.2	14.4	15.8	10.3	
Postsecondary teachers, chemistry.....	100.0	9.8	17.8	12.8	13.3	9.9	15.2	14.2	6.9	
Postsecondary teachers, physics.....	100.0	6.6	12.3	17.3	9.7	16.7	13.7	15.2	8.5	
Postsecondary teachers, other physical and related sciences.....	100.0	4.6	11.4	21.7	18.7	10.2	14.7	11.5	7.3	
Social scientists.....	100.0	8.6	11.9	13.8	15.6	17.8	16.1	10.2	6.0	
Economists.....	100.0	13.6	16.3	16.9	16.5	12.2	12.5	7.3	4.7	
Political scientists.....	100.0	5.7	16.1	9.6	13.3	19.1	10.0	15.4	10.9	
Sociologists and anthropologists.....	100.0	6.1	11.2	13.3	19.6	25.9	16.8	3.6	3.6	
Other social scientists.....	100.0	11.9	10.4	11.7	15.3	27.4	13.4	8.8	S	
Postsecondary teachers, economics.....	100.0	8.6	9.7	13.7	15.3	20.3	14.1	11.6	6.7	
Postsecondary teachers, political science.....	100.0	7.2	14.0	14.9	14.7	15.1	18.9	10.2	4.9	
Postsecondary teachers, sociology.....	100.0	8.8	9.0	12.4	13.7	17.9	16.6	10.9	10.8	
Postsecondary teachers, other social sciences.....	100.0	5.5	10.6	12.9	16.6	16.1	19.8	13.8	4.7	
Psychologists.....	100.0	7.4	11.6	14.0	16.6	20.2	16.1	8.1	5.9	
Psychologists.....	100.0	6.6	11.0	14.1	17.8	21.3	15.9	7.5	5.7	
Postsecondary teachers, psychology.....	100.0	9.8	13.6	13.7	13.1	17.1	16.6	9.8	6.3	
Engineers.....	100.0	13.2	17.4	17.9	13.4	11.3	11.5	9.3	6.0	
Aerospace/aeronautical engineers.....	100.0	10.9	13.5	17.4	10.6	17.8	12.2	11.1	6.5	
Chemical engineers.....	100.0	18.6	19.5	20.6	12.2	9.5	9.0	6.0	4.7	
Civil and architectural engineers.....	100.0	8.8	15.2	18.7	15.3	11.2	10.9	15.9	4.0	
Electrical and related engineers.....	100.0	17.4	21.5	17.1	10.0	8.7	11.7	9.9	3.7	
Materials/metallurgical engineers.....	100.0	9.0	18.9	23.1	23.7	8.1	10.2	7.0	S	
Mechanical engineers.....	100.0	12.2	18.6	18.7	14.9	11.3	11.8	6.9	5.6	
Other engineers.....	100.0	13.8	18.1	17.6	14.6	10.8	11.8	7.7	5.5	
Postsecondary teachers, engineering.....	100.0	8.4	12.7	16.9	14.9	13.8	11.9	11.0	10.2	
Non-S&E occupations.....	100.0	5.5	9.9	12.4	16.7	19.4	19.1	11.1	5.8	
Top/mid-level managers, administrators, etc.....	100.0	3.4	8.6	11.6	17.6	20.6	21.2	12.5	4.5	
Health and related occupations.....	100.0	9.3	12.9	14.9	17.0	15.0	17.4	7.4	6.0	
Teachers, except S&E postsecondary teachers.....	100.0	5.0	8.3	11.5	18.2	21.4	17.4	11.3	6.9	
Technicians/technologists.....	100.0	12.9	19.2	17.5	15.3	14.2	12.1	6.3	2.5	
Sales and marketing occupations.....	100.0	7.4	8.2	16.5	12.5	22.7	13.6	10.6	8.5	
Other non-S&E occupations.....	100.0	8.2	11.4	11.2	12.7	16.9	18.9	10.2	10.5	

KEY: S=Suppressed due to too few cases (fewer than 50 weighted cases). S&E=science and engineering.

NOTES: Numbers are rounded to nearest ten. Details may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 35. Employed doctoral scientists and engineers, by occupation and years since doctorate: 2001

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Occupation	Total	5 years or less	6-10 years	11-15 years	16-20 years	21-25 years	More than 25 years
[Number]							
All occupations.....	574,890	116,770	102,440	82,890	75,160	69,640	127,980
Scientists.....	352,320	76,430	64,390	50,990	46,460	41,250	72,790
Computer and information scientists.....	34,660	9,860	8,140	4,350	3,400	3,710	5,200
Computer/information scientists.....	28,300	8,680	6,800	3,420	2,820	2,900	3,680
Postsecondary teachers, computer sciences.....	6,360	1,190	1,340	930	580	810	1,510
Mathematical scientists.....	21,900	4,740	3,530	2,930	2,560	2,250	5,880
Mathematical scientists.....	8,520	2,320	1,640	1,380	930	800	1,450
Postsecondary teachers, math sciences.....	13,390	2,420	1,890	1,560	1,630	1,460	4,430
Life and related scientists.....	107,850	25,910	20,540	15,700	13,920	11,410	20,360
Agricultural and food scientists.....	8,780	1,680	1,570	1,670	1,410	780	1,660
Biological scientists, excluding medical scientists.....	33,210	11,510	6,600	4,420	3,390	2,930	4,350
Medical scientists.....	28,670	8,930	6,260	3,850	3,170	2,860	3,600
Forestry and conservation scientists.....	1,120	190	170	340	210	80	130
Postsecondary teachers, biological sciences.....	22,190	2,360	4,140	3,330	3,170	2,830	6,350
Postsecondary teachers, other life and related sciences.....	13,880	1,250	1,790	2,080	2,570	1,930	4,250
Physical and related scientists.....	73,840	13,490	12,650	10,710	9,820	8,130	19,050
Chemists, except biochemistry.....	24,220	5,300	4,570	3,700	3,260	2,690	4,690
Earth scientists.....	8,910	1,710	1,370	1,290	1,220	1,340	1,980
Physics and astronomers.....	13,960	2,690	2,310	1,860	1,910	1,660	3,520
Other physical scientists.....	1,140	220	140	80	140	180	370
Postsecondary teachers, chemistry.....	11,220	1,620	2,010	1,450	1,250	880	4,000
Postsecondary teachers, physics.....	8,070	960	1,200	1,260	1,080	840	2,730
Postsecondary teachers, other physical and related sciences....	6,330	990	1,040	1,060	960	540	1,750
Social scientists.....	47,200	10,240	7,590	6,350	6,190	6,990	9,840
Economists.....	7,520	1,860	1,330	1,120	1,070	870	1,260
Political scientists.....	1,430	350	260	60	150	220	400
Sociologists and anthropologists.....	3,800	1,040	460	750	480	570	500
Other social scientists.....	2,360	840	290	190	320	400	310
Postsecondary teachers, economics	8,870	1,310	1,320	1,220	1,210	1,510	2,300
Postsecondary teachers, political science	8,400	1,670	1,390	1,120	1,070	1,180	1,960
Postsecondary teachers, sociology	7,180	1,410	1,110	1,070	1,010	1,200	1,380
Postsecondary teachers, other social sciences	7,650	1,770	1,430	820	870	1,040	1,730
Psychologists.....	66,860	12,190	11,940	10,950	10,570	8,750	12,460
Psychologists.....	49,840	8,760	9,270	8,850	8,300	6,830	7,840
Postsecondary teachers, psychology.....	17,020	3,420	2,670	2,110	2,270	1,930	4,620
Engineers.....	75,420	18,780	15,060	10,470	7,460	7,160	16,490
Aerospace/aeronautical engineers.....	4,280	860	800	530	520	490	1,090
Chemical engineers.....	7,980	2,160	1,610	1,460	690	640	1,420
Civil and architectural engineers.....	4,000	1,080	780	590	450	170	930
Electrical and related engineers.....	16,110	5,080	3,400	1,890	1,080	1,180	3,490
Materials/metallurgical engineers.....	1,330	400	330	160	200	140	90
Mechanical engineers.....	8,320	2,260	1,940	880	840	780	1,630
Other engineers.....	16,530	4,600	3,330	2,210	1,520	1,800	3,070
Postsecondary teachers, engineering.....	16,870	2,340	2,880	2,750	2,160	1,970	4,770
Non-S&E occupations.....	147,150	21,550	22,990	21,430	21,240	21,230	38,710
Top/mid-level managers, administrators, etc.....	76,190	6,980	10,190	10,460	12,120	12,980	23,450
Health and related occupations.....	17,260	3,600	2,930	2,970	2,310	1,810	3,640
Teachers, except S&E postsecondary teachers.....	23,330	5,150	4,830	3,870	3,110	2,240	4,120
Technicians/technologists.....	7,030	1,970	1,500	860	710	820	1,170
Sales and marketing occupations.....	6,600	910	870	1,090	830	1,120	1,790
Other non-S&E occupations.....	16,740	2,950	2,670	2,170	2,150	2,260	4,540

See explanatory information and SOURCE at end of table.

Table 35. Employed doctoral scientists and engineers, by occupation and years since doctorate: 2001

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Occupation	Total	5 years or less	6-10 years	11-15 years	16-20 years	21-25 years	More than 25 years
		[Percent]					
All occupations.....	100.0	20.3	17.8	14.4	13.1	12.1	22.3
Scientists.....	100.0	21.7	18.3	14.5	13.2	11.7	20.7
Computer and information scientists.....	100.0	28.4	23.5	12.5	9.8	10.7	15.0
Computer/information scientists.....	100.0	30.7	24.0	12.1	10.0	10.3	13.0
Postsecondary teachers, computer sciences.....	100.0	18.6	21.1	14.6	9.2	12.7	23.8
Mathematical scientists.....	100.0	21.7	16.1	13.4	11.7	10.3	26.9
Mathematical scientists.....	100.0	27.2	19.2	16.2	11.0	9.4	17.1
Postsecondary teachers, math sciences.....	100.0	18.1	14.2	11.6	12.2	10.9	33.1
Life and related scientists.....	100.0	24.0	19.0	14.6	12.9	10.6	18.9
Agricultural and food scientists.....	100.0	19.1	17.9	19.0	16.1	8.9	19.0
Biological scientists, excluding medical scientists.....	100.0	34.6	19.9	13.3	10.2	8.8	13.1
Medical scientists.....	100.0	31.1	21.8	13.4	11.0	10.0	12.6
Forestry and conservation scientists.....	100.0	17.1	15.4	30.1	18.9	7.0	11.5
Postsecondary teachers, biological sciences.....	100.0	10.6	18.7	15.0	14.3	12.8	28.6
Postsecondary teachers, other life and related sciences.....	100.0	9.0	12.9	15.0	18.5	13.9	30.6
Physical and related scientists.....	100.0	18.3	17.1	14.5	13.3	11.0	25.8
Chemists, except biochemistry.....	100.0	21.9	18.9	15.3	13.5	11.1	19.4
Earth scientists.....	100.0	19.2	15.4	14.5	13.6	15.0	22.2
Physics and astronomers.....	100.0	19.3	16.5	13.4	13.7	11.9	25.2
Other physical scientists.....	100.0	19.1	12.3	6.8	12.6	16.2	32.9
Postsecondary teachers, chemistry.....	100.0	14.5	17.9	13.0	11.2	7.8	35.6
Postsecondary teachers, physics.....	100.0	11.9	14.9	15.6	13.3	10.4	33.8
Postsecondary teachers, other physical and related sciences.....	100.0	15.6	16.4	16.7	15.1	8.5	27.7
Social scientists.....	100.0	21.7	16.1	13.4	13.1	14.8	20.8
Economists.....	100.0	24.8	17.7	14.9	14.2	11.6	16.8
Political scientists.....	100.0	24.2	18.0	4.0	10.7	15.1	28.0
Sociologists and anthropologists.....	100.0	27.3	12.2	19.7	12.7	15.0	13.1
Other social scientists.....	100.0	35.6	12.5	8.2	13.6	16.8	13.3
Postsecondary teachers, economics	100.0	14.8	14.9	13.8	13.6	17.1	25.9
Postsecondary teachers, political science	100.0	19.9	16.6	13.3	12.8	14.1	23.3
Postsecondary teachers, sociology	100.0	19.6	15.5	14.9	14.1	16.7	19.3
Postsecondary teachers, other social sciences	100.0	23.1	18.6	10.7	11.4	13.6	22.6
Psychologists.....	100.0	18.2	17.9	16.4	15.8	13.1	18.6
Psychologists.....	100.0	17.6	18.6	17.7	16.6	13.7	15.7
Postsecondary teachers, psychology.....	100.0	20.1	15.7	12.4	13.3	11.3	27.1
Engineers.....	100.0	24.9	20.0	13.9	9.9	9.5	21.9
Aerospace/aeronautical engineers.....	100.0	20.1	18.6	12.3	12.1	11.4	25.5
Chemical engineers.....	100.0	27.1	20.2	18.3	8.7	8.0	17.8
Civil and architectural engineers.....	100.0	27.0	19.4	14.9	11.3	4.3	23.1
Electrical and related engineers.....	100.0	31.5	21.1	11.8	6.7	7.3	21.6
Materials/metallurgical engineers.....	100.0	29.8	24.6	12.3	15.4	10.6	7.1
Mechanical engineers.....	100.0	27.1	23.3	10.5	10.1	9.4	19.6
Other engineers.....	100.0	27.8	20.2	13.3	9.2	10.9	18.6
Postsecondary teachers, engineering.....	100.0	13.9	17.1	16.3	12.8	11.7	28.3
Non-S&E occupations.....	100.0	14.6	15.6	14.6	14.4	14.4	26.3
Top/mid-level managers, administrators, etc.....	100.0	9.2	13.4	13.7	15.9	17.0	30.8
Health and related occupations.....	100.0	20.8	17.0	17.2	13.4	10.5	21.1
Teachers, except S&E postsecondary teachers.....	100.0	22.1	20.7	16.6	13.3	9.6	17.6
Technicians/technologists.....	100.0	28.0	21.4	12.2	10.2	11.7	16.6
Sales and marketing occupations.....	100.0	13.7	13.1	16.6	12.5	16.9	27.2
Other non-S&E occupations.....	100.0	17.6	15.9	13.0	12.8	13.5	27.1

KEY: S=Suppressed due to too few cases (fewer than 50 weighted cases). S&E=science and engineering.

NOTES: Numbers are rounded to nearest ten. Details may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 36. Employed doctoral scientists and engineers, by occupation and sector of employment: 2001

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Occupation	Total	Universities and 4-year colleges	Other edu- cational institutions	Private-for- profit	Self- employed	Private not- for-profit	Federal Govern- ment	State and local govern- ment	Other sector
[Number]									
All occupations.....	574,890	245,060	17,980	196,940	30,420	28,430	38,050	16,580	1,430
Scientists.....	352,320	178,450	10,770	91,600	19,630	16,040	24,990	9,710	1,120
Computer and information scientists.....	34,660	8,080	300	23,120	790	870	1,080	380	S
Computer/information scientists.....	28,300	2,050	S	23,120	760	840	1,080	380	S
Postsecondary teachers, computer sciences.....	6,360	6,030	270	S	S	S	S	S	S
Mathematical scientists.....	21,900	14,410	840	3,810	280	820	1,490	240	S
Mathematical scientists.....	8,520	1,770	100	3,810	280	820	1,490	240	S
Postsecondary teachers, math sciences.....	13,390	12,640	740	S	S	S	S	S	S
Life and related scientists.....	107,850	65,400	2,180	23,150	1,620	4,110	9,390	1,960	S
Agricultural and food scientists.....	8,780	3,040	S	3,380	380	210	1,610	160	S
Biological scientists, excluding medical scientists.....	33,210	14,120	50	11,090	760	1,670	4,510	980	S
Medical scientists.....	28,670	14,320	S	8,380	480	2,040	2,760	690	S
Forestry and conservation scientists.....	1,120	170	S	210	S	150	430	130	S
Postsecondary teachers, biological sciences.....	22,190	20,040	2,000	50	S	S	70	S	S
Postsecondary teachers, other life and related sciences.....	13,880	13,710	120	S	S	S	S	S	S
Physical and related scientists.....	73,840	32,190	2,460	25,860	1,130	2,580	7,880	1,670	90
Chemists, except biochemistry.....	24,220	2,510	S	18,130	460	810	1,590	680	S
Earth scientists.....	8,910	2,480	S	2,380	260	630	2,690	470	S
Physics and astronomers.....	13,960	4,000	S	4,880	270	1,020	3,270	450	S
Other physical scientists.....	1,140	100	S	450	80	80	330	70	S
Postsecondary teachers, chemistry.....	11,220	9,650	1,540	S	S	S	S	S	S
Postsecondary teachers, physics.....	8,070	7,320	710	S	S	S	S	S	S
Postsecondary teachers, other physical and related sciences.....	6,330	6,130	140	S	S	S	S	S	S
Social scientists.....	47,200	34,850	1,230	3,220	1,020	1,750	3,190	990	940
Economists.....	7,520	880	S	2,270	450	610	2,000	410	910
Political scientists.....	1,430	640	S	110	130	150	310	60	S
Sociologists and anthropologists.....	3,800	1,750	50	480	170	550	480	310	S
Other social scientists.....	2,360	760	S	320	250	440	360	210	S
Postsecondary teachers, economics.....	8,870	8,630	220	S	S	S	S	S	S
Postsecondary teachers, political science.....	8,400	8,150	230	S	S	S	S	S	S
Postsecondary teachers, sociology.....	7,180	6,760	390	S	S	S	S	S	S
Postsecondary teachers, other social sciences.....	7,650	7,280	340	S	S	S	S	S	S
Psychologists.....	66,860	23,510	3,750	12,440	14,800	5,920	1,970	4,470	S
Psychologists.....	49,840	7,470	2,860	12,410	14,770	5,890	1,970	4,470	S
Postsecondary teachers, psychology.....	17,020	16,040	890	S	S	S	S	S	S
Engineers.....	75,420	21,930	250	43,210	1,920	2,100	4,870	1,060	80
Aerospace/aeronautical engineers.....	4,280	360	S	2,680	70	390	750	S	S
Chemical engineers.....	7,980	480	S	6,870	100	130	350	S	S
Civil and architectural engineers.....	4,000	370	S	2,280	300	110	380	530	S
Electrical and related engineers.....	16,110	1,270	S	12,630	610	490	1,070	S	S
Materials/metallurgical engineers.....	1,330	140	S	1,030	90	S	70	S	S
Mechanical engineers.....	8,320	710	S	6,700	210	180	440	S	S
Other engineers.....	16,530	2,020	S	10,950	540	800	1,800	420	S
Postsecondary teachers, engineering.....	16,870	16,590	220	50	S	S	S	S	S
Non-S&E occupations.....	147,150	44,670	6,960	62,130	8,870	10,290	8,190	5,810	230
Top/mid-level managers, administrators, etc.....	76,190	17,380	1,750	39,430	1,780	6,130	5,790	3,730	200
Health and related occupations.....	17,260	6,120	180	5,760	1,670	1,740	1,080	700	S
Teachers, except S&E postsecondary teachers.....	23,330	18,390	4,400	250	110	170	S	S	S
Technicians/technologists.....	7,030	750	S	5,100	290	190	380	300	S
Sales and marketing occupations.....	6,600	120	S	4,870	1,460	80	S	70	S
Other non-S&E occupations.....	16,740	1,910	600	6,730	3,570	1,990	930	970	S

See explanatory information and SOURCE at end of table.

Table 36. Employed doctoral scientists and engineers, by occupation and sector of employment: 2001

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Occupation	Total	Universities and 4-year colleges	Other educational institutions	Private-for-profit	Self-employed	Private not-for-profit	Federal Government	State and local government	Other sector
[Percent]									
All occupations.....	100.0	42.6	3.1	34.3	5.3	4.9	6.6	2.9	0.2
Scientists.....	100.0	50.7	3.1	26.0	5.6	4.6	7.1	2.8	0.3
Computer and information scientists.....	100.0	23.3	0.9	66.7	2.3	2.5	3.1	1.1	S
Computer/information scientists.....	100.0	7.2	S	81.7	2.7	3.0	3.8	1.3	S
Postsecondary teachers, computer sciences.....	100.0	94.9	4.3	S	S	S	S	S	S
Mathematical scientists.....	100.0	65.8	3.9	17.4	1.3	3.8	6.8	1.1	S
Mathematical scientists.....	100.0	20.7	1.2	44.7	3.3	9.7	17.5	2.8	S
Postsecondary teachers, math sciences.....	100.0	94.4	5.6	S	S	S	S	S	S
Life and related scientists.....	100.0	60.6	2.0	21.5	1.5	3.8	8.7	1.8	S
Agricultural and food scientists.....	100.0	34.6	S	38.5	4.3	2.4	18.3	1.8	S
Biological scientists, excluding medical scientists.....	100.0	42.5	0.2	33.4	2.3	5.0	13.6	2.9	S
Medical scientists.....	100.0	50.0	S	29.2	1.7	7.1	9.6	2.4	S
Forestry and conservation scientists.....	100.0	15.3	S	18.3	S	13.3	38.7	12.0	S
Postsecondary teachers, biological sciences.....	100.0	90.3	9.0	0.2	S	S	0.3	S	S
Postsecondary teachers, other life and related sciences.....	100.0	98.7	0.9	S	S	S	S	S	S
Physical and related scientists.....	100.0	43.6	3.3	35.0	1.5	3.5	10.7	2.3	0.1
Chemists, except biochemistry.....	100.0	10.4	S	74.9	1.9	3.3	6.6	2.8	S
Earth scientists.....	100.0	27.8	S	26.7	2.9	7.0	30.2	5.3	S
Physics and astronomers.....	100.0	28.7	S	34.9	1.9	7.3	23.4	3.2	S
Other physical scientists.....	100.0	8.4	S	39.1	6.8	6.9	29.1	5.8	S
Postsecondary teachers, chemistry.....	100.0	86.0	13.7	S	S	S	S	S	S
Postsecondary teachers, physics.....	100.0	90.7	8.8	S	S	S	S	S	S
Postsecondary teachers, other physical and related sciences.....	100.0	96.9	2.1	S	S	S	S	S	S
Social scientists.....	100.0	73.8	2.6	6.8	2.2	3.7	6.8	2.1	2.0
Economists.....	100.0	11.7	S	30.2	5.9	8.1	26.6	5.5	12.1
Political scientists.....	100.0	44.8	S	7.5	9.2	10.7	21.8	4.1	S
Sociologists and anthropologists.....	100.0	46.1	1.3	12.7	4.5	14.4	12.8	8.1	S
Other social scientists.....	100.0	32.3	S	13.5	10.7	18.8	15.4	8.8	S
Postsecondary teachers, economics	100.0	97.2	2.5	S	S	S	S	S	S
Postsecondary teachers, political science	100.0	97.0	2.7	S	S	S	S	S	S
Postsecondary teachers, sociology	100.0	94.2	5.4	S	S	S	S	S	S
Postsecondary teachers, other social sciences	100.0	95.2	4.4	S	S	S	S	S	S
Psychologists.....	100.0	35.2	5.6	18.6	22.1	8.8	2.9	6.7	S
Psychologists.....	100.0	15.0	5.7	24.9	29.6	11.8	3.9	9.0	S
Postsecondary teachers, psychology.....	100.0	94.3	5.2	S	S	S	S	S	S
Engineers.....	100.0	29.1	0.3	57.3	2.5	2.8	6.5	1.4	0.1
Aerospace/aeronautical engineers.....	100.0	8.4	S	62.7	1.8	9.1	17.6	S	S
Chemical engineers.....	100.0	6.1	S	86.1	1.2	1.6	4.4	S	S
Civil and architectural engineers.....	100.0	9.2	S	57.0	7.6	2.7	9.5	13.3	S
Electrical and related engineers.....	100.0	7.9	S	78.4	3.8	3.0	6.6	S	S
Materials/metallurgical engineers.....	100.0	10.4	S	77.4	6.6	S	5.6	S	S
Mechanical engineers.....	100.0	8.5	S	80.5	2.5	2.1	5.3	S	S
Other engineers.....	100.0	12.2	S	66.3	3.3	4.9	10.9	2.5	S
Postsecondary teachers, engineering.....	100.0	98.4	1.3	0.3	S	S	S	S	S
Non-S&E occupations.....	100.0	30.4	4.7	42.2	6.0	7.0	5.6	3.9	0.2
Top/mid-level managers, administrators, etc.....	100.0	22.8	2.3	51.8	2.3	8.0	7.6	4.9	0.3
Health and related occupations.....	100.0	35.5	1.1	33.4	9.7	10.1	6.3	4.1	S
Teachers, except S&E postsecondary teachers.....	100.0	78.8	18.8	1.1	0.5	0.7	S	S	S
Technicians/technologists.....	100.0	10.6	S	72.5	4.1	2.7	5.4	4.3	S
Sales and marketing occupations.....	100.0	1.8	S	73.8	22.1	1.1	S	1.1	S
Other non-S&E occupations.....	100.0	11.4	3.6	40.2	21.3	11.9	5.6	5.8	S

KEY: S=Suppressed due to too few cases (fewer than 50 weighted cases). S&E=science and engineering.

NOTES: Numbers are rounded to nearest ten. Details may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 37. Employed doctoral scientists and engineers, by sector of employment, broad occupation, and sex: 2001

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Employment sector/occupation	Total	Male	Female	Total	Male	Female
	[Number]		[Percent]			
All sectors.....	574,890	427,770	147,110	100.0	74.4	25.6
Scientists.....	352,320	253,000	99,320	100.0	71.8	28.2
Computer and information scientists.....	34,660	29,940	4,720	100.0	86.4	13.6
Mathematical scientists.....	21,900	17,450	4,460	100.0	79.7	20.3
Life and related scientists.....	107,850	75,640	32,210	100.0	70.1	29.9
Physical and related scientists.....	73,840	63,560	10,280	100.0	86.1	13.9
Social scientists.....	47,200	32,820	14,380	100.0	69.5	30.5
Psychologists.....	66,860	33,590	33,280	100.0	50.2	49.8
Engineers.....	75,420	69,340	6,080	100.0	91.9	8.1
Non-S&E occupations.....	147,150	105,440	41,710	100.0	71.7	28.3
Universities and 4-year colleges.....	245,060	175,530	69,520	100.0	71.6	28.4
Scientists.....	178,450	127,590	50,860	100.0	71.5	28.5
Computer and information scientists.....	8,080	7,060	1,030	100.0	87.3	12.7
Mathematical scientists.....	14,410	11,660	2,750	100.0	80.9	19.1
Life and related scientists.....	65,400	45,320	20,080	100.0	69.3	30.7
Physical and related scientists.....	32,190	27,090	5,110	100.0	84.1	15.9
Social scientists.....	34,850	24,450	10,410	100.0	70.1	29.9
Psychologists.....	23,510	12,020	11,490	100.0	51.1	48.9
Engineers.....	21,930	20,220	1,710	100.0	92.2	7.8
Non-S&E occupations.....	44,670	27,720	16,950	100.0	62.1	37.9
Other educational institutions.....	17,980	10,660	7,320	100.0	59.3	40.7
Scientists.....	10,770	6,720	4,050	100.0	62.4	37.6
Computer and information scientists.....	300	260	S	100.0	84.0	S
Mathematical scientists.....	840	650	200	100.0	76.7	23.3
Life and related scientists.....	2,180	1,470	710	100.0	67.5	32.5
Physical and related scientists.....	2,460	2,070	390	100.0	84.1	15.9
Social scientists.....	1,230	720	510	100.0	58.3	41.7
Psychologists.....	3,750	1,570	2,190	100.0	41.7	58.3
Engineers.....	250	210	S	100.0	84.0	S
Non-S&E occupations.....	6,960	3,720	3,230	100.0	53.5	46.5
Private-for-profit.....	196,940	162,030	34,900	100.0	82.3	17.7
Scientists.....	91,600	71,290	20,310	100.0	77.8	22.2
Computer and information scientists.....	23,120	20,030	3,090	100.0	86.6	13.4
Mathematical scientists.....	3,810	3,030	780	100.0	79.5	20.5
Life and related scientists.....	23,150	16,860	6,290	100.0	72.8	27.2
Physical and related scientists.....	25,860	22,470	3,390	100.0	86.9	13.1
Social scientists.....	3,220	2,360	860	100.0	73.3	26.7
Psychologists.....	12,440	6,540	5,900	100.0	52.6	47.4
Engineers.....	43,210	39,810	3,390	100.0	92.1	7.9
Non-S&E occupations.....	62,130	50,930	11,200	100.0	82.0	18.0
Self-employed.....	30,420	18,500	11,920	100.0	60.8	39.2
Scientists.....	19,630	10,300	9,340	100.0	52.4	47.6
Computer and information scientists.....	790	630	160	100.0	79.4	20.6
Mathematical scientists.....	280	150	130	100.0	54.5	45.5
Life and related scientists.....	1,620	1,190	430	100.0	73.6	26.4
Physical and related scientists.....	1,130	1,110	S	100.0	98.8	S
Social scientists.....	1,020	640	390	100.0	62.1	37.9
Psychologists.....	14,800	6,580	8,220	100.0	44.5	55.5
Engineers.....	1,920	1,810	100	100.0	94.7	5.3
Non-S&E occupations.....	8,870	6,390	2,480	100.0	72.0	28.0

See explanatory information and SOURCE at end of table.

Table 37. Employed doctoral scientists and engineers, by sector of employment, broad occupation, and sex: 2001

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Employment sector/occupation	Total	Male	Female	Total	Male	Female
	[Number]			[Percent]		
Private not-for-profit.....	28,430	18,120	10,310	100.0	63.7	36.3
Scientists.....	16,040	10,110	5,930	100.0	63.0	37.0
Computer and information scientists.....	870	790	80	100.0	90.7	9.3
Mathematical scientists.....	820	600	220	100.0	73.0	27.0
Life and related scientists.....	4,110	2,700	1,410	100.0	65.7	34.3
Physical and related scientists.....	2,580	2,230	350	100.0	86.6	13.4
Social scientists.....	1,750	910	840	100.0	51.8	48.2
Psychologists.....	5,920	2,880	3,030	100.0	48.7	51.3
Engineers.....	2,100	1,850	260	100.0	87.8	12.2
Non-S&E occupations.....	10,290	6,170	4,120	100.0	60.0	40.0
Federal Government.....	38,050	29,830	8,220	100.0	78.4	21.6
Scientists.....	24,990	19,260	5,730	100.0	77.1	22.9
Computer and information scientists.....	1,080	930	150	100.0	86.0	14.0
Mathematical scientists.....	1,490	1,170	320	100.0	78.8	21.2
Life and related scientists.....	9,390	6,610	2,780	100.0	70.4	29.6
Physical and related scientists.....	7,880	7,020	860	100.0	89.1	10.9
Social scientists.....	3,190	2,280	910	100.0	71.6	28.4
Psychologists.....	1,970	1,250	720	100.0	63.3	36.7
Engineers.....	4,870	4,470	400	100.0	91.7	8.3
Non-S&E occupations.....	8,190	6,110	2,080	100.0	74.6	25.4
State and local government.....	16,580	12,020	4,560	100.0	72.5	27.5
Scientists.....	9,710	6,880	2,830	100.0	70.9	29.1
Computer and information scientists.....	380	240	140	100.0	62.2	37.8
Mathematical scientists.....	240	190	50	100.0	78.8	21.2
Life and related scientists.....	1,960	1,460	500	100.0	74.6	25.4
Physical and related scientists.....	1,670	1,510	160	100.0	90.7	9.3
Social scientists.....	990	730	260	100.0	73.9	26.1
Psychologists.....	4,470	2,750	1,720	100.0	61.5	38.5
Engineers.....	1,060	910	150	100.0	85.5	14.5
Non-S&E occupations.....	5,810	4,230	1,580	100.0	72.8	27.2
Other sector.....	1,430	1,070	360	100.0	75.0	25.0
Scientists.....	1,120	850	270	100.0	75.7	24.3
Computer and information scientists.....	S	S	S	S	S	S
Mathematical scientists.....	S	S	S	S	S	S
Life and related scientists.....	S	S	S	S	S	S
Physical and related scientists.....	90	70	S	100.0	77.0	S
Social scientists.....	940	730	210	100.0	77.9	22.1
Psychologists.....	S	S	S	100.0	S	S
Engineers.....	80	60	S	100.0	71.8	S
Non-S&E occupations.....	230	170	60	100.0	72.7	27.3

KEY: S=Suppressed due to too few cases (fewer than 50 weighted cases). S&E=science and engineering.

NOTES: Numbers are rounded to nearest ten. Details may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 38. Employed doctoral scientists and engineers, by sector of employment, broad occupation, and race/ethnicity: 2001

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Employment sector/occupation	Total	White ¹	Black	Asian/Pacific Islander	Hispanic	American Indian/Alaskan Native
[Number]						
All sectors.....	574,890	455,220	15,050	87,770	15,020	1,840
Scientists.....	352,320	284,050	8,780	48,130	10,140	1,220
Computer and information scientists.....	34,660	21,980	600	11,340	710	S
Mathematical scientists.....	21,900	16,890	540	3,810	610	S
Life and related scientists.....	107,850	85,180	2,150	17,240	3,000	280
Physical and related scientists.....	73,840	59,920	1,190	10,660	1,840	240
Social scientists.....	47,200	39,620	2,020	3,600	1,710	250
Psychologists.....	66,860	60,470	2,280	1,480	2,260	370
Engineers.....	75,420	50,400	1,200	21,880	1,780	160
Non-S&E occupations.....	147,150	120,770	5,070	17,760	3,100	450
Universities and 4-year colleges.....	245,060	200,660	8,000	27,720	7,830	840
Scientists.....	178,450	146,230	5,410	20,270	5,910	620
Computer and information scientists.....	8,080	6,190	170	1,550	170	S
Mathematical scientists.....	14,410	11,520	330	2,030	500	S
Life and related scientists.....	65,400	51,770	1,410	10,070	2,040	100
Physical and related scientists.....	32,190	27,000	620	3,440	970	160
Social scientists.....	34,850	29,200	1,670	2,470	1,260	240
Psychologists.....	23,510	20,550	1,210	700	970	80
Engineers.....	21,930	16,630	530	4,020	670	80
Non-S&E occupations.....	44,670	37,800	2,050	3,430	1,250	140
Other educational institutions.....	17,980	15,250	1,030	1,020	600	90
Scientists.....	10,770	9,330	390	700	320	S
Computer and information scientists.....	300	210	S	90	S	S
Mathematical scientists.....	840	700	S	130	S	S
Life and related scientists.....	2,180	1,980	S	150	S	S
Physical and related scientists.....	2,460	2,100	110	170	70	S
Social scientists.....	1,230	1,070	60	70	S	S
Psychologists.....	3,750	3,280	170	80	200	S
Engineers.....	250	170	S	80	S	S
Non-S&E occupations.....	6,960	5,750	630	230	270	60
Private-for-profit.....	196,940	140,210	3,440	48,950	3,890	440
Scientists.....	91,600	66,260	1,670	21,370	2,030	260
Computer and information scientists.....	23,120	13,260	370	9,000	470	S
Mathematical scientists.....	3,810	2,340	140	1,240	80	S
Life and related scientists.....	23,150	16,930	440	5,040	630	110
Physical and related scientists.....	25,860	19,500	360	5,520	430	50
Social scientists.....	3,220	2,660	S	370	140	S
Psychologists.....	12,440	11,560	320	200	280	80
Engineers.....	43,210	25,730	540	16,020	860	60
Non-S&E occupations.....	62,130	48,220	1,240	11,560	1,000	120
Self-employed.....	30,420	28,000	420	1,300	600	90
Scientists.....	19,630	18,390	290	480	400	70
Computer and information scientists.....	790	660	S	100	S	S
Mathematical scientists.....	280	270	S	S	S	S
Life and related scientists.....	1,620	1,450	S	100	50	S
Physical and related scientists.....	1,130	1,010	S	120	S	S
Social scientists.....	1,020	980	S	S	S	S
Psychologists.....	14,800	14,030	260	140	310	60
Engineers.....	1,920	1,690	S	180	S	S
Non-S&E occupations.....	8,870	7,920	120	640	180	S

See explanatory information and SOURCE at end of table.

Table 38. Employed doctoral scientists and engineers, by sector of employment, broad occupation, and race/ethnicity: 2001

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Employment sector/occupation	Total	White ¹	Black	Asian/Pacific Islander	Hispanic	American Indian/Alaskan Native
[Number]						
Private not-for-profit.....	28,430	24,430	530	2,690	650	130
Scientists.....	16,040	13,880	150	1,530	390	90
Computer and information scientists.....	870	610	S	220	S	S
Mathematical scientists.....	820	680	S	100	S	S
Life and related scientists.....	4,110	3,550	S	460	70	S
Physical and related scientists.....	2,580	2,230	S	320	S	S
Social scientists.....	1,750	1,510	S	190	S	S
Psychologists.....	5,920	5,280	70	230	260	80
Engineers.....	2,100	1,510	S	470	90	S
Non-S&E occupations.....	10,290	9,050	360	690	160	S
Federal Government.....	38,050	31,950	970	4,180	810	130
Scientists.....	24,990	20,930	490	2,880	580	100
Computer and information scientists.....	1,080	830	S	210	S	S
Mathematical scientists.....	1,490	1,150	S	270	S	S
Life and related scientists.....	9,390	7,690	210	1,300	160	S
Physical and related scientists.....	7,880	6,720	90	830	210	S
Social scientists.....	3,190	2,750	120	270	60	S
Psychologists.....	1,970	1,790	S	S	100	S
Engineers.....	4,870	3,920	60	780	110	S
Non-S&E occupations.....	8,190	7,100	420	520	120	S
State and local government.....	16,580	13,750	620	1,680	440	90
Scientists.....	9,710	8,290	340	730	330	S
Computer and information scientists.....	380	200	S	150	S	S
Mathematical scientists.....	240	210	S	S	S	S
Life and related scientists.....	1,960	1,780	S	110	S	S
Physical and related scientists.....	1,670	1,330	S	190	140	S
Social scientists.....	990	780	60	130	S	S
Psychologists.....	4,470	3,990	220	110	140	S
Engineers.....	1,060	690	S	310	S	S
Non-S&E occupations.....	5,810	4,770	250	640	90	60
Other sector.....	1,430	960	S	230	200	S
Scientists.....	1,120	740	S	170	170	S
Computer and information scientists.....	S	S	S	S	S	S
Mathematical scientists.....	S	S	S	S	S	S
Life and related scientists.....	S	S	S	S	S	S
Physical and related scientists.....	90	S	S	60	S	S
Social scientists.....	940	660	S	80	150	S
Psychologists.....	S	S	S	S	S	S
Engineers.....	80	60	S	S	S	S
Non-S&E occupations.....	230	160	S	S	S	S

See explanatory information and SOURCE at end of table.

Table 38. Employed doctoral scientists and engineers, by sector of employment, broad occupation, and race/ethnicity: 2001

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Employment sector/occupation	Total	White ¹	Black	Asian/Pacific Islander	Hispanic	American Indian/Alaskan Native
[Percent]						
All sectors.....	100.0	79.2	2.6	15.3	2.6	0.3
Scientists.....	100.0	80.6	2.5	13.7	2.9	0.3
Computer and information scientists.....	100.0	63.4	1.7	32.7	2.1	S
Mathematical scientists.....	100.0	77.1	2.5	17.4	2.8	S
Life and related scientists.....	100.0	79.0	2.0	16.0	2.8	0.3
Physical and related scientists.....	100.0	81.1	1.6	14.4	2.5	0.3
Social scientists.....	100.0	83.9	4.3	7.6	3.6	0.5
Psychologists.....	100.0	90.4	3.4	2.2	3.4	0.6
Engineers.....	100.0	66.8	1.6	29.0	2.4	0.2
Non-S&E occupations.....	100.0	82.1	3.4	12.1	2.1	0.3
Universities and 4-year colleges.....	100.0	81.9	3.3	11.3	3.2	0.3
Scientists.....	100.0	81.9	3.0	11.4	3.3	0.3
Computer and information scientists.....	100.0	76.5	2.1	19.2	2.1	S
Mathematical scientists.....	100.0	79.9	2.3	14.1	3.5	S
Life and related scientists.....	100.0	79.2	2.2	15.4	3.1	0.2
Physical and related scientists.....	100.0	83.9	1.9	10.7	3.0	0.5
Social scientists.....	100.0	83.8	4.8	7.1	3.6	0.7
Psychologists.....	100.0	87.4	5.1	3.0	4.1	0.4
Engineers.....	100.0	75.8	2.4	18.3	3.0	0.4
Non-S&E occupations.....	100.0	84.6	4.6	7.7	2.8	0.3
Other educational institutions.....	100.0	84.8	5.7	5.7	3.3	0.5
Scientists.....	100.0	86.6	3.6	6.5	3.0	S
Computer and information scientists.....	100.0	68.5	S	29.0	S	S
Mathematical scientists.....	100.0	82.8	S	15.9	S	S
Life and related scientists.....	100.0	90.7	S	7.0	S	S
Physical and related scientists.....	100.0	85.4	4.6	7.0	2.7	S
Social scientists.....	100.0	86.7	4.9	5.8	S	S
Psychologists.....	100.0	87.3	4.5	2.2	5.4	S
Engineers.....	100.0	67.8	S	31.3	S	S
Non-S&E occupations.....	100.0	82.7	9.1	3.4	3.9	0.9
Private-for-profit.....	100.0	71.2	1.7	24.9	2.0	0.2
Scientists.....	100.0	72.3	1.8	23.3	2.2	0.3
Computer and information scientists.....	100.0	57.3	1.6	38.9	2.1	S
Mathematical scientists.....	100.0	61.5	3.8	32.7	2.1	S
Life and related scientists.....	100.0	73.1	1.9	21.8	2.7	0.5
Physical and related scientists.....	100.0	75.4	1.4	21.3	1.7	0.2
Social scientists.....	100.0	82.6	S	11.5	4.5	S
Psychologists.....	100.0	93.0	2.5	1.6	2.2	0.7
Engineers.....	100.0	59.6	1.2	37.1	2.0	0.1
Non-S&E occupations.....	100.0	77.6	2.0	18.6	1.6	0.2
Self-employed.....	100.0	92.0	1.4	4.3	2.0	0.3
Scientists.....	100.0	93.7	1.5	2.5	2.0	0.4
Computer and information scientists.....	100.0	83.6	S	13.1	S	S
Mathematical scientists.....	100.0	97.0	S	S	S	S
Life and related scientists.....	100.0	89.5	S	5.9	3.4	S
Physical and related scientists.....	100.0	89.4	S	10.5	S	S
Social scientists.....	100.0	95.4	S	S	S	S
Psychologists.....	100.0	94.8	1.8	1.0	2.1	0.4
Engineers.....	100.0	88.2	S	9.6	S	S
Non-S&E occupations.....	100.0	89.3	1.3	7.2	2.0	S

See explanatory information and SOURCE at end of table.

Table 38. Employed doctoral scientists and engineers, by sector of employment, broad occupation, and race/ethnicity: 2001

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Employment sector/occupation	Total	White ¹	Black	Asian/Pacific Islander	Hispanic	American Indian/Alaskan Native
[Percent]						
Private not-for-profit.....	100.0	85.9	1.9	9.4	2.3	0.5
Scientists.....	100.0	86.5	0.9	9.5	2.4	0.6
Computer and information scientists.....	100.0	70.6	S	25.8	S	S
Mathematical scientists.....	100.0	83.2	S	12.3	S	S
Life and related scientists.....	100.0	86.5	S	11.3	1.7	S
Physical and related scientists.....	100.0	86.7	S	12.5	S	S
Social scientists.....	100.0	86.6	S	11.0	S	S
Psychologists.....	100.0	89.3	1.1	3.9	4.4	1.3
Engineers.....	100.0	71.6	S	22.1	4.5	S
Non-S&E occupations.....	100.0	87.9	3.5	6.7	1.6	S
Federal Government.....	100.0	84.0	2.6	11.0	2.1	0.3
Scientists.....	100.0	83.8	2.0	11.5	2.3	0.4
Computer and information scientists.....	100.0	77.0	S	19.2	S	S
Mathematical scientists.....	100.0	77.5	S	17.9	S	S
Life and related scientists.....	100.0	81.9	2.2	13.9	1.7	S
Physical and related scientists.....	100.0	85.3	1.2	10.6	2.6	S
Social scientists.....	100.0	86.2	3.6	8.3	1.8	S
Psychologists.....	100.0	90.9	S	S	5.2	S
Engineers.....	100.0	80.4	1.2	16.0	2.3	S
Non-S&E occupations.....	100.0	86.8	5.2	6.4	1.5	S
State and local government.....	100.0	82.9	3.8	10.1	2.6	0.6
Scientists.....	100.0	85.3	3.5	7.5	3.4	S
Computer and information scientists.....	100.0	52.4	S	39.2	S	S
Mathematical scientists.....	100.0	86.4	S	S	S	S
Life and related scientists.....	100.0	91.0	S	5.8	S	S
Physical and related scientists.....	100.0	79.9	S	11.3	8.5	S
Social scientists.....	100.0	78.8	6.1	13.4	S	S
Psychologists.....	100.0	89.1	5.0	2.4	3.1	S
Engineers.....	100.0	65.0	S	29.5	S	S
Non-S&E occupations.....	100.0	82.1	4.3	11.0	1.6	1.0
Other sector.....	100.0	67.3	S	15.9	13.9	S
Scientists.....	100.0	66.2	S	14.7	15.3	S
Computer and information scientists.....	100.0	S	S	S	S	S
Mathematical scientists.....	100.0	S	S	S	S	S
Life and related scientists.....	100.0	S	S	S	S	S
Physical and related scientists.....	100.0	S	S	74.6	S	S
Social scientists.....	100.0	70.4	S	8.9	16.4	S
Psychologists.....	100.0	S	S	S	S	S
Engineers.....	100.0	77.8	S	S	S	S
Non-S&E occupations.....	100.0	68.9	S	S	S	S

¹ 'Other' race included with 'white'.

KEY: S=Suppressed due to too few cases (fewer than 50 weighted cases). S&E=science and engineering.

NOTES: The race/ethnicity data shown are for all doctoral recipients, including temporary residents. Numbers are rounded to nearest ten. Details may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 39. Employed doctoral scientists and engineers, by occupation and primary or secondary work activity: 2001

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Occupation	Total	Research and development					Teaching	Management, sales, and administration	Computer applications	Professional services	Other activities
		Total	Applied research	Basic research	Development	Design					
All occupations.....	574,890	366,870	204,230	142,620	72,690	38,810	182,870	216,650	71,390	95,720	30,820
Scientists.....	352,320	246,570	135,950	122,350	34,110	14,780	133,770	101,320	46,320	58,730	15,130
Computer and information scientists.....	34,660	21,320	9,100	3,650	5,630	5,870	6,380	9,320	22,980	1,010	1,170
Computer/information scientists.....	28,300	17,730	7,530	1,580	5,610	5,810	640	8,140	21,730	850	930
Postsecondary teachers, computer sciences.....	6,360	3,590	1,570	2,070	S	60	5,740	1,170	1,250	160	240
Mathematical scientists.....	21,900	16,190	7,790	8,180	860	1,090	13,390	3,680	4,620	780	880
Mathematical scientists.....	8,520	7,410	5,730	1,490	730	1,080	340	2,310	3,870	620	350
Postsecondary teachers, math sciences.....	13,390	8,780	2,060	6,690	140	S	13,050	1,370	750	160	530
Life and related scientists.....	107,850	92,220	51,980	56,300	9,850	2,190	35,190	34,130	5,960	7,170	4,270
Agricultural and food scientists.....	8,780	7,690	6,700	2,760	1,810	360	350	3,210	550	610	690
Biological scientists, excluding medical scientists.....	33,210	30,980	18,950	18,890	4,170	1,070	1,160	13,550	2,410	1,740	1,210
Medical scientists.....	28,670	26,760	17,590	16,160	3,210	570	1,350	10,610	2,110	2,400	1,070
Forestry and conservation scientists.....	1,120	1,040	810	190	220	100	S	630	70	80	130
Postsecondary teachers, biological sciences.....	22,190	15,490	2,790	12,870	180	S	20,590	3,940	390	720	790
Postsecondary teachers, other life and related sciences.....	13,880	10,270	5,150	5,420	270	50	11,730	2,190	430	1,620	380
Physical and related scientists.....	73,840	60,800	35,230	28,920	14,230	4,260	25,170	18,800	8,710	2,860	3,110
Chemists, except biochemistry.....	24,220	22,120	17,270	5,790	9,870	1,730	390	8,000	1,350	840	1,360
Earth scientists.....	8,910	8,150	5,860	3,990	790	510	230	2,550	2,410	400	330
Physics and astronomers.....	13,960	12,660	7,780	5,490	3,170	1,790	370	3,470	3,680	960	510
Other physical scientists.....	1,140	1,000	810	170	290	130	S	350	180	140	100
Postsecondary teachers, chemistry.....	11,220	6,360	960	5,380	S	S	10,840	2,250	470	350	460
Postsecondary teachers, physics.....	8,070	5,650	820	4,780	S	S	7,740	1,150	390	100	180
Postsecondary teachers, other physical and related sciences.....	6,330	4,850	1,730	3,330	S	S	5,590	1,020	240	70	160
Social scientists.....	47,200	35,240	19,360	17,160	1,880	710	31,480	10,020	2,630	3,290	3,110
Economists.....	7,520	5,870	5,180	1,500	380	410	100	2,860	1,310	1,560	770
Political scientists.....	1,430	1,070	830	450	60	S	150	650	S	170	290
Sociologists and anthropologists.....	3,800	3,350	2,500	1,190	340	120	370	1,680	440	380	210
Other social scientists.....	2,360	2,020	1,710	360	510	150	160	870	180	260	130
Postsecondary teachers, economics	8,870	6,960	3,940	3,140	80	S	8,410	900	230	100	440
Postsecondary teachers, political science	8,400	5,550	1,200	4,200	150	S	8,050	1,280	150	160	600
Postsecondary teachers, sociology	7,180	5,050	1,920	3,090	200	S	6,830	730	130	290	390
Postsecondary teachers, other social sciences	7,650	5,380	2,080	3,220	160	S	7,410	1,060	160	370	290
Psychologists.....	66,860	20,790	12,490	8,130	1,660	660	22,160	25,380	1,430	43,620	2,590
Psychologists.....	49,840	10,090	8,170	1,940	1,320	640	5,960	22,710	1,160	41,920	1,760
Postsecondary teachers, psychology.....	17,020	10,700	4,330	6,200	340	S	16,190	2,670	270	1,700	830

See explanatory information and SOURCE at end of table.

Table 39. Employed doctoral scientists and engineers, by occupation and primary or secondary work activity: 2001

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Occupation	Total	Research and development					Teaching	Management, sales, and administration	Computer applications	Professional services	Other activities
		Total	Applied research	Basic research	Development	Design					
[Number]											
Engineers.....	75,420	65,060	38,130	9,680	24,810	17,680	16,720	19,990	12,230	2,900	3,600
Aerospace/aeronautical engineers.....	4,280	3,820	2,370	510	1,250	1,090	110	1,150	1,310	110	230
Chemical engineers.....	7,980	7,350	4,430	780	3,770	2,460	220	2,290	1,190	80	420
Civil and architectural engineers.....	4,000	3,010	1,350	190	510	1,540	150	1,880	980	730	220
Electrical and related engineers.....	16,110	14,780	7,530	1,350	7,810	5,060	80	4,310	4,230	110	770
Materials/metallurgical engineers.....	1,330	970	550	S	430	400	S	450	320	80	110
Mechanical engineers.....	8,320	7,700	3,880	580	4,190	3,040	100	2,100	1,500	290	420
Other engineers.....	16,530	14,430	9,530	1,960	6,470	3,710	290	5,450	2,010	1,310	1,100
Postsecondary teachers, engineering.....	16,870	13,010	8,490	4,270	370	370	15,730	2,350	700	190	340
Non-S&E occupations.....	147,150	55,250	30,150	10,600	13,760	6,350	32,370	95,350	12,840	34,090	12,080
Top/mid-level managers, administrators, etc.....	76,190	27,810	14,420	3,230	9,050	3,920	4,790	68,800	4,750	8,650	5,340
Health and related occupations.....	17,260	5,020	3,690	1,170	630	200	3,820	6,160	380	13,940	680
Teachers, except S&E postsecondary teachers.....	23,330	12,470	7,470	4,370	900	150	21,590	4,650	910	2,090	1,240
Technicians/technologists.....	7,030	3,890	1,760	600	1,120	1,190	220	1,940	4,850	210	350
Sales and marketing occupations.....	6,600	1,680	790	110	590	250	220	5,890	700	780	490
Other non-S&E occupations.....	16,740	4,380	2,010	1,110	1,470	640	1,730	7,900	1,250	8,420	3,980

See explanatory information and SOURCE at end of table.

Table 39. Employed doctoral scientists and engineers, by occupation and primary or secondary work activity: 2001

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Occupation	Total	Research and development					Teaching	Management, sales, and administration	Computer applications	Professional services	Other activities
		Total	Applied research	Basic research	Development	Design					
[Percent]											
All occupations.....	100.0	63.8	35.5	24.8	12.6	6.8	31.8	37.7	12.4	16.7	5.4
Scientists.....	100.0	70.0	38.6	34.7	9.7	4.2	38.0	28.8	13.1	16.7	4.3
Computer and information scientists.....	100.0	61.5	26.3	10.5	16.2	16.9	18.4	26.9	66.3	2.9	3.4
Computer/information scientists.....	100.0	62.7	26.6	5.6	19.8	20.5	2.2	28.8	76.8	3.0	3.3
Postsecondary teachers, computer sciences.....	100.0	56.4	24.7	32.5	S	1.0	90.3	18.5	19.6	2.5	3.8
Mathematical scientists.....	100.0	73.9	35.6	37.4	3.9	5.0	61.1	16.8	21.1	3.6	4.0
Mathematical scientists.....	100.0	87.0	67.3	17.5	8.5	12.7	4.0	27.1	45.4	7.3	4.1
Postsecondary teachers, math sciences.....	100.0	65.6	15.4	50.0	1.0	S	97.5	10.3	5.6	1.2	4.0
Life and related scientists.....	100.0	85.5	48.2	52.2	9.1	2.0	32.6	31.6	5.5	6.7	4.0
Agricultural and food scientists.....	100.0	87.6	76.3	31.5	20.6	4.1	4.0	36.5	6.3	7.0	7.8
Biological scientists, excluding medical scientists.....	100.0	93.3	57.1	56.9	12.6	3.2	3.5	40.8	7.3	5.3	3.6
Medical scientists.....	100.0	93.3	61.3	56.4	11.2	2.0	4.7	37.0	7.4	8.4	3.7
Forestry and conservation scientists.....	100.0	92.6	71.9	17.3	19.8	8.7	S	56.7	6.2	7.1	12.0
Postsecondary teachers, biological sciences.....	100.0	69.8	12.6	58.0	0.8	S	92.8	17.7	1.8	3.2	3.6
Postsecondary teachers, other life and related sciences.....	100.0	74.0	37.1	39.0	1.9	0.4	84.5	15.8	3.1	11.6	2.8
Physical and related scientists.....	100.0	82.3	47.7	39.2	19.3	5.8	34.1	25.5	11.8	3.9	4.2
Chemists, except biochemistry.....	100.0	91.3	71.3	23.9	40.8	7.1	1.6	33.0	5.6	3.5	5.6
Earth scientists.....	100.0	91.5	65.8	44.8	8.9	5.7	2.6	28.6	27.0	4.5	3.7
Physics and astronomers.....	100.0	90.7	55.8	39.3	22.7	12.8	2.7	24.9	26.3	6.9	3.7
Other physical scientists.....	100.0	87.8	71.2	14.6	25.2	11.5	S	30.6	15.5	12.4	9.1
Postsecondary teachers, chemistry.....	100.0	56.7	8.6	47.9	S	S	96.6	20.1	4.2	3.1	4.1
Postsecondary teachers, physics.....	100.0	70.0	10.1	59.2	S	S	95.9	14.3	4.9	1.3	2.2
Postsecondary teachers, other physical and related sciences.....	100.0	76.7	27.3	52.5	S	S	88.4	16.1	3.7	1.1	2.6
Social scientists.....	100.0	74.7	41.0	36.4	4.0	1.5	66.7	21.2	5.6	7.0	6.6
Economists.....	100.0	78.0	68.9	20.0	5.1	5.4	1.4	38.0	17.4	20.8	10.2
Political scientists.....	100.0	74.5	57.7	31.4	4.0	S	10.5	45.1	S	11.9	20.0
Sociologists and anthropologists.....	100.0	88.1	65.8	31.3	8.9	3.3	9.7	44.3	11.5	10.0	5.4
Other social scientists.....	100.0	85.8	72.6	15.2	21.5	6.5	7.0	37.0	7.6	11.1	5.6
Postsecondary teachers, economics.....	100.0	78.5	44.5	35.4	0.9	S	94.8	10.1	2.6	1.2	4.9
Postsecondary teachers, political science.....	100.0	66.1	14.3	50.0	1.8	S	95.9	15.2	1.7	1.9	7.1
Postsecondary teachers, sociology.....	100.0	70.3	26.7	43.1	2.8	S	95.2	10.1	1.8	4.0	5.5
Postsecondary teachers, other social sciences.....	100.0	70.3	27.2	42.1	2.1	S	96.8	13.9	2.1	4.8	3.8
Psychologists.....	100.0	31.1	18.7	12.2	2.5	1.0	33.1	38.0	2.1	65.2	3.9
Psychologists.....	100.0	20.2	16.4	3.9	2.6	1.3	12.0	45.6	2.3	84.1	3.5
Postsecondary teachers, psychology.....	100.0	62.9	25.4	36.4	2.0	S	95.2	15.7	1.6	10.0	4.9

See explanatory information and SOURCE at end of table.

Table 39. Employed doctoral scientists and engineers, by occupation and primary or secondary work activity: 2001

Occupation	Total	Research and development					Teaching	Management, sales, and administration	Computer applications	Professional services	Other activities
		Total	Applied research	Basic research	Development	Design					
[Percent]											
Engineers.....	100.0	86.3	50.6	12.8	32.9	23.4	22.2	26.5	16.2	3.8	4.8
Aerospace/aeronautical engineers.....	100.0	89.2	55.3	11.9	29.3	25.6	2.6	27.0	30.6	2.6	5.3
Chemical engineers.....	100.0	92.1	55.5	9.8	47.3	30.9	2.8	28.7	14.9	1.0	5.2
Civil and architectural engineers.....	100.0	75.2	33.7	4.8	12.8	38.5	3.7	47.0	24.4	18.2	5.4
Electrical and related engineers.....	100.0	91.7	46.8	8.4	48.5	31.4	0.5	26.8	26.2	0.7	4.8
Materials/metallurgical engineers.....	100.0	72.9	41.2	S	32.6	29.9	S	34.2	23.7	5.8	8.5
Mechanical engineers.....	100.0	92.6	46.7	7.0	50.4	36.6	1.2	25.3	18.1	3.5	5.1
Other engineers.....	100.0	87.3	57.6	11.9	39.1	22.5	1.7	33.0	12.1	7.9	6.6
Postsecondary teachers, engineering.....	100.0	77.1	50.3	25.3	2.2	2.2	93.3	13.9	4.2	1.1	2.0
Non-S&E occupations.....	100.0	37.5	20.5	7.2	9.4	4.3	22.0	64.8	8.7	23.2	8.2
Top/mid-level managers, administrators, etc.....	100.0	36.5	18.9	4.2	11.9	5.1	6.3	90.3	6.2	11.4	7.0
Health and related occupations.....	100.0	29.1	21.4	6.8	3.6	1.1	22.1	35.7	2.2	80.8	3.9
Teachers, except S&E postsecondary teachers.....	100.0	53.5	32.0	18.7	3.9	0.7	92.5	19.9	3.9	9.0	5.3
Technicians/technologists.....	100.0	55.4	25.1	8.5	16.0	16.9	3.2	27.6	69.0	3.1	5.0
Sales and marketing occupations.....	100.0	25.5	12.0	1.7	8.9	3.8	3.4	89.2	10.5	11.8	7.4
Other non-S&E occupations.....	100.0	26.1	12.0	6.6	8.8	3.8	10.3	47.2	7.5	50.3	23.8

KEY: S=Suppressed due to too few cases (fewer than 50 weighted cases). S&E=science and engineering.

NOTES: Numbers are rounded to nearest ten. Details exceed total due to multiple responses.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 40. Employed doctoral scientists and engineers, by employer location and broad occupation: 2001

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Employer location	Total	Scientists							Engineers	Non-S&E occupations
		All scientists	Computer and information scientists	Mathematical scientists	Life and related scientists	Physical and related scientists	Social and related scientists	Psychologists		
[Number]										
All locations.....	574,890	352,320	34,660	21,900	107,850	73,840	47,200	66,860	75,420	147,150
New England.....	47,450	30,810	3,390	1,660	9,730	5,980	4,340	5,700	5,270	11,370
Connecticut.....	9,490	6,380	280	250	2,180	1,480	740	1,450	880	2,230
Maine.....	1,990	1,350	60	S	440	250	320	260	160	480
Massachusetts.....	29,100	18,870	2,550	1,140	6,210	3,460	2,490	3,020	3,230	7,000
New Hampshire.....	2,470	1,470	360	S	280	360	130	300	430	580
Rhode Island.....	2,640	1,640	60	160	300	340	370	410	290	700
Vermont.....	1,750	1,090	90	50	320	100	280	260	280	380
Middle Atlantic.....	92,860	59,520	6,290	3,950	16,280	12,150	7,710	13,130	10,020	23,320
New Jersey.....	22,740	14,350	2,500	1,090	3,710	3,560	1,340	2,160	3,050	5,340
New York.....	43,980	28,400	2,580	1,790	7,500	4,690	4,050	7,800	3,930	11,650
Pennsylvania.....	26,140	16,770	1,210	1,080	5,080	3,910	2,320	3,160	3,040	6,330
East North Central.....	77,860	47,090	3,940	3,180	13,350	10,030	7,070	9,520	11,870	18,890
Illinois.....	22,110	13,460	1,510	990	3,900	2,600	2,310	2,130	2,450	6,200
Indiana.....	9,580	5,960	380	440	1,640	1,160	1,080	1,260	1,390	2,230
Michigan.....	17,380	10,130	740	890	2,790	2,060	1,330	2,310	3,600	3,640
Ohio.....	20,070	12,010	890	630	3,340	2,960	1,640	2,550	3,430	4,620
Wisconsin.....	8,720	5,530	420	220	1,690	1,240	710	1,260	1,000	2,200
West North Central.....	34,010	21,880	930	1,230	8,590	3,640	3,140	4,370	3,600	8,530
Iowa.....	4,390	3,140	140	370	1,200	450	600	390	380	870
Kansas.....	3,970	2,730	170	150	1,120	260	360	670	350	880
Minnesota.....	11,410	6,630	290	300	2,260	1,290	1,010	1,490	1,640	3,140
Missouri.....	9,280	5,690	200	250	2,330	1,140	690	1,090	950	2,630
Nebraska.....	1,080	800	S	S	390	100	90	150	120	160
North Dakota.....	2,890	2,220	90	60	1,060	280	300	450	140	520
South Dakota.....	1,000	660	S	50	230	120	100	130	S	320
South Atlantic.....	109,440	68,700	5,670	5,040	21,800	13,970	11,090	11,140	11,110	29,630
Delaware.....	3,540	2,030	180	S	780	720	120	210	440	1,070
District of Columbia.....	14,200	8,690	500	500	1,410	1,300	4,080	900	690	4,820
Florida.....	15,740	9,080	580	450	2,800	1,520	1,210	2,530	2,160	4,500
Georgia.....	11,990	7,790	720	430	2,520	1,410	1,290	1,420	1,080	3,120
Maryland.....	22,730	15,190	1,210	1,260	6,360	3,370	1,070	1,910	2,340	5,210
North Carolina.....	16,760	10,720	810	810	4,370	2,090	1,010	1,620	1,220	4,820
South Carolina.....	5,130	3,100	130	260	1,120	640	460	500	880	1,140
Virginia.....	17,460	10,860	1,460	1,210	2,030	2,540	1,690	1,920	2,010	4,580
West Virginia.....	1,890	1,250	70	80	410	380	160	130	280	360
East South Central.....	22,080	13,510	880	1,120	4,840	2,570	1,810	2,300	2,990	5,580
Alabama.....	5,330	3,070	250	400	1,050	500	390	480	990	1,260
Kentucky.....	4,590	2,930	220	370	1,120	260	510	460	230	1,430
Mississippi.....	3,170	1,900	S	130	880	450	220	190	390	880
Tennessee.....	8,980	5,600	380	210	1,780	1,360	690	1,180	1,380	2,010

See explanatory information and SOURCE at end of table.

Table 40. Employed doctoral scientists and engineers, by employer location and broad occupation: 2001

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Employer location	Total	Scientists							Engineers	Non-S&E occupations
		All scientists	Computer and information scientists	Mathematical scientists	Life and related scientists	Physical and related scientists	Social and related scientists	Psychologists		
[Number]										
West South Central.....	44,700	26,390	2,620	1,270	8,660	6,080	3,320	4,440	7,040	11,270
Arkansas.....	2,560	1,760	S	S	960	250	290	190	140	670
Louisiana.....	5,290	3,250	80	260	1,210	650	440	610	670	1,370
Oklahoma.....	4,360	2,900	150	S	870	820	420	600	600	860
Texas.....	32,490	18,490	2,380	940	5,620	4,360	2,160	3,040	5,620	8,370
Mountain.....	37,950	21,990	1,980	1,560	5,440	6,620	2,460	3,920	6,670	9,290
Arizona.....	7,070	3,680	390	190	880	940	500	790	1,450	1,940
Colorado.....	11,780	7,390	790	480	1,720	2,110	850	1,450	1,630	2,750
Idaho.....	2,230	1,100	70	50	300	290	120	270	510	620
Montana.....	1,440	1,000	S	160	330	130	110	230	110	330
New Mexico.....	7,750	4,260	340	240	880	2,090	360	360	1,850	1,630
Nevada.....	2,030	1,360	90	210	220	510	130	210	270	390
Utah.....	4,820	2,570	250	190	910	380	370	470	750	1,500
Wyoming.....	840	610	S	60	210	180	S	140	100	130
Pacific.....	106,450	61,310	8,950	2,840	18,680	12,560	6,140	12,140	16,630	28,510
Alaska.....	1,200	740	60	S	230	290	90	70	80	380
California.....	80,870	45,600	7,240	2,180	12,640	9,820	4,370	9,350	13,430	21,850
Hawaii.....	2,580	1,750	140	S	570	320	370	320	180	640
Oregon.....	7,040	4,060	450	250	1,710	610	430	600	1,260	1,730
Washington.....	14,760	9,160	1,060	380	3,530	1,520	870	1,810	1,680	3,920
Puerto Rico.....	1,410	870	S	50	330	200	70	200	120	430
Other U.S. territories and other areas.....	320	100	S	S	70	S	S	S	S	190

See explanatory information and SOURCE at end of table.

Table 40. Employed doctoral scientists and engineers, by employer location and broad occupation: 2001

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Employer location	Total	Scientists							Engineers	Non-S&E occupations
		All scientists	Computer and information scientists	Mathematical scientists	Life and related scientists	Physical and related scientists	Social and related scientists	Psychologists		
[Percentage distribution]										
All locations.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
New England.....	8.3	8.7	9.8	7.6	9.0	8.1	9.2	8.5	7.0	7.7
Connecticut.....	1.7	1.8	0.8	1.1	2.0	2.0	1.6	2.2	1.2	1.5
Maine.....	0.3	0.4	0.2	S	0.4	0.3	0.7	0.4	0.2	0.3
Massachusetts.....	5.1	5.4	7.4	5.2	5.8	4.7	5.3	4.5	4.3	4.8
New Hampshire.....	0.4	0.4	1.0	S	0.3	0.5	0.3	0.5	0.6	0.4
Rhode Island.....	0.5	0.5	0.2	0.7	0.3	0.5	0.8	0.6	0.4	0.5
Vermont.....	0.3	0.3	0.2	0.2	0.3	0.1	0.6	0.4	0.4	0.3
Middle Atlantic.....	16.2	16.9	18.1	18.1	15.1	16.5	16.3	19.6	13.3	15.8
New Jersey.....	4.0	4.1	7.2	5.0	3.4	4.8	2.8	3.2	4.0	3.6
New York.....	7.7	8.1	7.4	8.2	7.0	6.3	8.6	11.7	5.2	7.9
Pennsylvania.....	4.5	4.8	3.5	4.9	4.7	5.3	4.9	4.7	4.0	4.3
East North Central.....	13.5	13.4	11.4	14.5	12.4	13.6	15.0	14.2	15.7	12.8
Illinois.....	3.8	3.8	4.4	4.5	3.6	3.5	4.9	3.2	3.2	4.2
Indiana.....	1.7	1.7	1.1	2.0	1.5	1.6	2.3	1.9	1.8	1.5
Michigan.....	3.0	2.9	2.1	4.1	2.6	2.8	2.8	3.5	4.8	2.5
Ohio.....	3.5	3.4	2.6	2.9	3.1	4.0	3.5	3.8	4.6	3.1
Wisconsin.....	1.5	1.6	1.2	1.0	1.6	1.7	1.5	1.9	1.3	1.5
West North Central.....	5.9	6.2	2.7	5.6	8.0	4.9	6.6	6.5	4.8	5.8
Iowa.....	0.8	0.9	0.4	1.7	1.1	0.6	1.3	0.6	0.5	0.6
Kansas.....	0.7	0.8	0.5	0.7	1.0	0.3	0.8	1.0	0.5	0.6
Minnesota.....	2.0	1.9	0.8	1.4	2.1	1.7	2.1	2.2	2.2	2.1
Missouri.....	1.6	1.6	0.6	1.1	2.2	1.5	1.5	1.6	1.3	1.8
Nebraska.....	0.2	0.2	S	S	0.4	0.1	0.2	0.2	0.2	0.1
North Dakota.....	0.5	0.6	0.2	0.3	1.0	0.4	0.6	0.7	0.2	0.4
South Dakota.....	0.2	0.2	S	0.3	0.2	0.2	0.2	0.2	S	0.2
South Atlantic.....	19.0	19.5	16.4	23.0	20.2	18.9	23.5	16.7	14.7	20.1
Delaware.....	0.6	0.6	0.5	S	0.7	1.0	0.2	0.3	0.6	0.7
District of Columbia.....	2.5	2.5	1.4	2.3	1.3	1.8	8.6	1.3	0.9	3.3
Florida.....	2.7	2.6	1.7	2.0	2.6	2.1	2.6	3.8	2.9	3.1
Georgia.....	2.1	2.2	2.1	2.0	2.3	1.9	2.7	2.1	1.4	2.1
Maryland.....	4.0	4.3	3.5	5.8	5.9	4.6	2.3	2.9	3.1	3.5
North Carolina.....	2.9	3.0	2.4	3.7	4.1	2.8	2.1	2.4	1.6	3.3
South Carolina.....	0.9	0.9	0.4	1.2	1.0	0.9	1.0	0.8	1.2	0.8
Virginia.....	3.0	3.1	4.2	5.5	1.9	3.4	3.6	2.9	2.7	3.1
West Virginia.....	0.3	0.4	0.2	0.4	0.4	0.5	0.3	0.2	0.4	0.2
East South Central.....	3.8	3.8	2.5	5.1	4.5	3.5	3.8	3.4	4.0	3.8
Alabama.....	0.9	0.9	0.7	1.8	1.0	0.7	0.8	0.7	1.3	0.9
Kentucky.....	0.8	0.8	0.6	1.7	1.0	0.3	1.1	0.7	0.3	1.0
Mississippi.....	0.6	0.5	S	0.6	0.8	0.6	0.5	0.3	0.5	0.6
Tennessee.....	1.6	1.6	1.1	1.0	1.7	1.8	1.5	1.8	1.8	1.4

See explanatory information and SOURCE at end of table.

Table 40. Employed doctoral scientists and engineers, by employer location and broad occupation: 2001

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Employer location	Total	Scientists							Non-S&E occupations	
		All scientists	Computer and information scientists	Mathematical scientists	Life and related scientists	Physical and related scientists	Social and related scientists	Psychologists		
[Percentage distribution]										
West South Central.....	7.8	7.5	7.6	5.8	8.0	8.2	7.0	6.6	9.3	7.7
Arkansas.....	0.4	0.5	S	S	0.9	0.3	0.6	0.3	0.2	0.5
Louisiana.....	0.9	0.9	0.2	1.2	1.1	0.9	0.9	0.9	0.9	0.9
Oklahoma.....	0.8	0.8	0.4	S	0.8	1.1	0.9	0.9	0.8	0.6
Texas.....	5.7	5.2	6.9	4.3	5.2	5.9	4.6	4.5	7.5	5.7
Mountain.....	6.6	6.2	5.7	7.1	5.0	9.0	5.2	5.9	8.8	6.3
Arizona.....	1.2	1.0	1.1	0.8	0.8	1.3	1.1	1.2	1.9	1.3
Colorado.....	2.0	2.1	2.3	2.2	1.6	2.9	1.8	2.2	2.2	1.9
Idaho.....	0.4	0.3	0.2	0.2	0.3	0.4	0.3	0.4	0.7	0.4
Montana.....	0.2	0.3	S	0.7	0.3	0.2	0.2	0.3	0.1	0.2
New Mexico.....	1.3	1.2	1.0	1.1	0.8	2.8	0.8	0.5	2.5	1.1
Nevada.....	0.4	0.4	0.2	1.0	0.2	0.7	0.3	0.3	0.4	0.3
Utah.....	0.8	0.7	0.7	0.9	0.8	0.5	0.8	0.7	1.0	1.0
Wyoming.....	0.1	0.2	S	0.3	0.2	0.2	S	0.2	0.1	0.1
Pacific.....	18.5	17.4	25.8	13.0	17.3	17.0	13.0	18.2	22.0	19.4
Alaska.....	0.2	0.2	0.2	S	0.2	0.4	0.2	0.1	0.1	0.3
California.....	14.1	12.9	20.9	9.9	11.7	13.3	9.3	14.0	17.8	14.8
Hawaii.....	0.4	0.5	0.4	S	0.5	0.4	0.8	0.5	0.2	0.4
Oregon.....	1.2	1.2	1.3	1.1	1.6	0.8	0.9	0.9	1.7	1.2
Washington.....	2.6	2.6	3.0	1.7	3.3	2.1	1.9	2.7	2.2	2.7
Puerto Rico.....	0.2	0.2	S	0.2	0.3	0.3	0.2	0.3	0.2	0.3
Other U.S. territories and other areas.....	0.1	S	S	S	0.1	S	S	S	S	0.1

KEY: S=Suppressed due to too few cases (fewer than 50 weighted cases).

NOTES: Since the survey sample design does not include geography, the reliability of estimates in some states may be poor due to small sample size.

Numbers are rounded to nearest ten. Details may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 41. Employed doctoral scientists and engineers, by selected demographic characteristics and broad field of doctorate 2001

Characteristics	Total	Sciences								Engineering
		All sciences	Computer and information sciences	Mathematical sciences	Biological and agricultural sciences	Health sciences	Physical and related sciences	Social sciences	Psychology	
Number.....	574,890	475,300	10,780	25,960	140,790	21,390	111,330	76,170	88,890	99,580
										[Percent distribution]
Total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Sex:										
Male.....	74.4	70.6	84.1	85.2	71.1	43.2	86.3	68.8	52.6	92.4
Female.....	25.6	29.4	15.9	14.8	28.9	56.8	13.7	31.2	47.4	7.6
Race/ethnicity¹										
White.....	79.2	82.3	65.0	77.3	81.4	81.3	79.5	83.3	90.1	64.4
Black.....	2.6	2.8	2.0	1.7	2.0	5.2	1.5	4.7	3.8	1.8
Asian/Pacific Islander.....	15.3	11.9	30.5	18.2	13.7	10.0	16.6	8.2	2.4	31.5
Hispanic.....	2.6	2.7	2.4	2.8	2.6	3.0	2.2	3.3	3.2	2.0
American Indian/Alaskan Native..	0.3	0.3	S	S	0.2	0.5	0.3	0.5	0.5	0.2
Age:										
Under 35.....	9.5	9.0	15.8	11.4	10.1	6.5	10.1	6.2	7.4	12.2
35 to 39.....	13.9	13.1	24.4	13.1	15.0	9.1	14.5	9.6	10.8	17.9
40 to 44.....	15.2	14.6	22.9	11.6	15.6	13.3	16.0	12.8	12.8	18.0
45 to 49.....	16.1	16.6	18.1	12.0	18.5	17.8	14.8	15.4	17.7	13.9
50 to 54.....	15.8	16.7	12.5	14.0	14.9	24.3	13.1	19.6	21.2	11.2
55 to 59.....	14.8	15.3	5.5	18.2	13.4	16.8	14.5	18.6	16.6	12.1
60 to 64.....	9.3	9.3	S	14.2	7.8	8.0	10.8	11.7	7.8	9.1
65 to 75.....	5.5	5.4	S	5.5	4.7	4.2	6.3	6.1	5.9	5.6
Citizenship status:										
U.S. citizen.....	90.1	91.9	76.6	86.6	90.9	92.7	90.8	91.6	98.2	81.8
Native born.....	76.7	81.0	57.0	70.8	80.0	83.4	75.9	82.1	93.6	56.0
Naturalized.....	13.4	10.8	19.6	15.8	10.9	9.3	14.9	9.6	4.6	25.8
Non-U.S. citizen.....	9.9	8.1	23.4	13.4	9.1	7.3	9.2	8.4	1.8	18.2
Permanent resident.....	7.0	5.7	17.4	8.3	6.4	5.0	6.5	6.2	1.4	12.7
Temporary resident.....	2.9	2.4	6.0	5.1	2.7	2.3	2.8	2.1	0.4	5.5
Years since doctorate:										
5 years or less.....	20.3	19.5	35.6	18.2	20.6	28.8	16.9	18.8	17.9	24.0
6-10 years.....	17.8	17.3	33.5	15.3	17.4	23.7	16.2	15.5	16.9	20.4
11-15 years.....	14.4	14.4	18.6	10.1	14.5	14.8	14.2	13.7	15.9	14.4
16-20 years.....	13.1	13.7	8.0	10.7	14.1	13.3	12.5	14.3	15.9	9.9
21-25 years.....	12.1	12.7	4.4	12.0	12.5	9.8	11.4	15.5	14.3	9.3
More than 25 years.....	22.3	22.3	S	33.7	20.9	9.6	28.8	22.3	19.1	21.9
Place of birth:										
U.S.....	75.9	80.2	55.8	69.8	79.2	82.3	75.2	81.4	92.6	55.3
Europe.....	4.1	4.0	6.0	7.3	3.5	2.9	5.0	4.3	2.3	4.7
Asia.....	15.9	11.9	33.7	18.7	13.5	10.7	16.5	8.8	2.1	34.9
North America.....	1.0	1.0	1.4	1.0	1.0	0.8	0.9	1.0	1.1	0.7
Central America.....	0.4	0.4	S	0.3	0.4	S	0.4	0.3	0.4	0.3
Caribbean.....	0.5	0.5	S	0.2	0.3	0.6	0.5	0.7	0.6	0.5
South America.....	0.8	0.8	0.9	1.0	0.9	0.6	0.6	1.1	0.5	1.0
Africa.....	1.2	1.0	1.1	1.2	1.0	1.6	0.8	1.8	0.3	2.3
Oceania.....	0.2	0.2	S	0.4	0.1	0.4	S	0.4	0.1	0.2

¹ The race/ethnicity data shown are for all doctoral recipients, including temporary residents. 'Other' race included with 'white'.

KEY: S=Suppressed due to too few cases (fewer than 50 weighted cases).

NOTES: Numbers are rounded to nearest ten. Details may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 42. Employed doctoral scientists and engineers, by selected demographic characteristics and broad occupation: 2001

Characteristics	Total	Scientists							Engineers	Non-S&E occupations
		All scientists	Computer and information scientists	Mathematical scientists	Life and related scientists	Physical and related scientists	Social and related scientists	Psychologists		
Number.....	574,890	352,320	34,660	21,900	107,850	73,840	47,200	66,860	75,420	147,150
[Percent distribution]										
Total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Sex:										
Male.....	74.4	71.8	86.4	79.7	70.1	86.1	69.5	50.2	91.9	71.7
Female.....	25.6	28.2	13.6	20.3	29.9	13.9	30.5	49.8	8.1	28.3
Race/ethnicity¹										
White.....	79.2	80.6	63.4	77.1	79.0	81.1	83.9	90.4	66.8	82.1
Black.....	2.6	2.5	1.7	2.5	2.0	1.6	4.3	3.4	1.6	3.4
Asian/Pacific Islander.....	15.3	13.7	32.7	17.4	16.0	14.4	7.6	2.2	29.0	12.1
Hispanic.....	2.6	2.9	2.1	2.8	2.8	2.5	3.6	3.4	2.4	2.1
American Indian/Alaskan Native.....	0.3	0.3	S	S	0.3	0.3	0.5	0.6	0.2	0.3
Age:										
Under 35.....	9.5	10.5	13.4	12.3	12.0	10.2	8.6	7.4	13.2	5.5
35 to 39.....	13.9	14.9	19.2	14.7	16.2	15.7	11.9	11.6	17.4	9.9
40 to 44.....	15.2	15.7	17.5	13.7	17.1	16.3	13.8	14.0	17.9	12.4
45 to 49.....	16.1	16.4	15.3	14.1	18.2	15.4	15.6	16.6	13.4	16.7
50 to 54.....	15.8	15.2	13.9	13.8	13.3	12.7	17.8	20.2	11.3	19.4
55 to 59.....	14.8	13.6	13.0	13.5	11.7	13.0	16.1	16.1	11.5	19.1
60 to 64.....	9.3	8.5	5.9	11.9	7.1	10.1	10.2	8.1	9.3	11.1
65 to 75.....	5.5	5.2	1.9	6.0	4.4	6.5	6.0	5.9	6.0	5.8
Citizenship status:										
U.S. citizen.....	90.1	89.9	78.1	85.0	88.6	90.8	90.8	98.0	82.9	94.4
Native born.....	76.7	78.7	57.4	71.1	77.3	77.6	81.6	93.4	59.0	81.1
Naturalized.....	13.4	11.2	20.7	13.8	11.3	13.2	9.3	4.6	23.8	13.3
Non-U.S. citizen.....	9.9	10.1	21.9	15.0	11.4	9.2	9.2	2.0	17.1	5.6
Permanent resident.....	7.0	6.9	15.5	9.8	7.6	6.2	6.6	1.6	11.8	4.5
Temporary resident.....	2.9	3.2	6.4	5.2	3.8	3.0	2.5	0.4	5.4	1.1
Years since doctorate:										
5 years or less.....	20.3	21.7	28.4	21.7	24.0	18.3	21.7	18.2	24.9	14.6
6-10 years.....	17.8	18.3	23.5	16.1	19.0	17.1	16.1	17.9	20.0	15.6
11-15 years.....	14.4	14.5	12.5	13.4	14.6	14.5	13.4	16.4	13.9	14.6
16-20 years.....	13.1	13.2	9.8	11.7	12.9	13.3	13.1	15.8	9.9	14.4
21-25 years.....	12.1	11.7	10.7	10.3	10.6	11.0	14.8	13.1	9.5	14.4
More than 25 years.....	22.3	20.7	15.0	26.9	18.9	25.8	20.8	18.6	21.9	26.3
Place of birth:										
U.S.....	75.9	77.8	56.5	70.0	76.6	76.8	80.7	92.6	58.5	80.2
Europe.....	4.1	4.2	5.2	7.2	3.8	4.5	4.9	2.4	4.8	3.7
Asia.....	15.9	13.9	33.7	17.9	15.9	14.8	8.5	1.9	31.8	12.6
North America.....	1.0	1.1	0.8	1.2	1.0	1.0	1.3	1.2	0.9	0.8
Central America.....	0.4	0.4	0.3	0.4	0.4	0.5	0.4	0.4	0.4	0.2
Caribbean.....	0.5	0.5	0.6	S	0.4	0.5	0.7	0.6	0.4	0.5
South America.....	0.8	0.9	0.9	1.1	0.8	0.9	1.2	0.6	0.9	0.6
Africa.....	1.2	1.1	1.9	1.7	1.0	0.9	1.9	0.2	2.0	1.2
Oceania.....	0.2	0.2	0.2	0.4	0.1	S	0.5	0.1	0.2	0.2

¹ The race/ethnicity data shown are for all doctoral recipients, including temporary residents. 'Other' race included with 'white'.

KEY: S=Suppressed due to too few cases (fewer than 50 weighted cases).

NOTES: Numbers are rounded to nearest ten. Details may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 43. Employed doctoral scientists and engineers, by selected demographic characteristics and citizenship status: 2001

Characteristics	Total	U.S. citizen			Non-U.S. citizen		
		Total	Native born	Naturalized	Total	Permanent resident	Temporary resident
Number.....	574,890	518,110	440,940	77,170	56,780	39,980	16,800
		[Percent distribution]					
Total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Sex:							
Male.....	74.4	74.0	73.0	79.9	77.9	77.9	77.9
Female.....	25.6	26.0	27.0	20.1	22.1	22.1	22.1
Race/ethnicity¹							
White.....	79.2	84.6	93.8	31.9	30.0	30.2	29.7
Black.....	2.6	2.5	2.2	4.1	3.6	3.5	3.9
Asian/Pacific Islander.....	15.3	10.2	1.7	59.2	61.1	61.3	60.5
Hispanic.....	2.6	2.3	1.9	4.6	5.2	5.0	5.8
American Indian/Alaskan Native.....	0.3	0.4	0.4	S	S	S	S
Age:							
Under 35.....	9.5	7.9	8.5	4.4	24.7	15.4	46.9
35 to 39.....	13.9	11.5	11.4	12.1	36.1	36.2	35.9
40 to 44.....	15.2	14.7	13.9	19.3	19.7	23.4	10.9
45 to 49.....	16.1	16.7	16.4	18.8	10.5	13.1	4.2
50 to 54.....	15.8	17.1	17.2	16.4	3.9	5.2	0.9
55 to 59.....	14.8	16.1	16.7	12.7	2.6	3.2	1.0
60 to 64.....	9.3	10.1	10.3	9.3	1.4	1.9	S
65 to 75.....	5.5	5.9	5.8	7.0	1.1	1.5	S
Years since doctorate:							
5 years or less.....	20.3	16.4	17.1	12.2	56.4	42.2	90.5
6-10 years.....	17.8	16.9	15.8	23.0	26.5	34.8	6.9
11-15 years.....	14.4	15.1	14.5	18.6	8.1	11.0	1.2
16-20 years.....	13.1	14.1	14.1	13.8	3.9	5.4	0.5
21-25 years.....	12.1	13.2	13.5	11.6	2.1	2.6	0.7
More than 25 years.....	22.3	24.4	25.0	20.9	2.9	4.0	S
Place of birth:							
U.S.....	75.9	84.0	98.4	1.6	2.3	1.8	3.5
Europe.....	4.1	2.7	0.5	14.9	17.3	16.8	18.6
Asia.....	15.9	10.7	0.6	68.2	63.7	64.6	61.3
North America.....	1.0	0.6	0.2	2.9	4.4	4.6	3.9
Central America.....	0.4	0.2	0.1	1.3	1.6	1.5	2.0
Caribbean.....	0.5	0.4	S	2.6	0.9	1.0	0.7
South America.....	0.8	0.5	0.1	2.8	3.8	3.7	3.9
Africa.....	1.2	0.9	0.1	5.2	4.7	4.5	5.4
Oceania.....	0.2	S	S	0.3	1.2	1.5	0.7

¹ The race/ethnicity data shown are for all doctoral recipients, including temporary residents. 'Other' race included with 'white'.

KEY: S=Suppressed due to too few cases (fewer than 50 weighted cases).

NOTES: Numbers are rounded to nearest ten. Details may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 44. Employed doctoral scientists and engineers, by selected demographic and employment-related characteristics and sector of employment: 2001

Page 1 of 2

Characteristics	Total	Universities and 4-year colleges	Other educational institutions	Private-for- profit	Self- employed	Private not- for-profit	Federal government	State and local government	Other sector
Number.....	574,890	245,060	17,980	196,940	30,420	28,430	38,050	16,580	1,430
[Percent distribution]									
Total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Sex:									
Male.....	74.4	71.6	59.3	82.3	60.8	63.7	78.4	72.5	75.0
Female.....	25.6	28.4	40.7	17.7	39.2	36.3	21.6	27.5	25.0
Race/ethnicity¹									
White.....	79.2	81.9	84.8	71.2	92.0	85.9	84.0	82.9	67.3
Black.....	2.6	3.3	5.7	1.7	1.4	1.9	2.6	3.8	S
Asian/Pacific Islander.....	15.3	11.3	5.7	24.9	4.3	9.4	11.0	10.1	15.9
Hispanic.....	2.6	3.2	3.3	2.0	2.0	2.3	2.1	2.6	13.9
American Indian/Alaskan Native.....	0.3	0.3	0.5	0.2	0.3	0.5	0.3	0.6	S
Age:									
Under 35.....	9.5	10.1	5.2	11.3	1.9	8.4	7.9	4.1	13.4
35 to 39.....	13.9	13.6	7.8	17.4	6.3	11.8	11.4	7.2	17.2
40 to 44.....	15.2	14.5	12.9	17.2	10.3	16.9	12.6	14.4	19.3
45 to 49.....	16.1	15.7	16.8	16.4	15.7	15.5	16.3	20.2	13.7
50 to 54.....	15.8	15.1	22.2	14.2	19.5	17.8	17.4	23.7	15.2
55 to 59.....	14.8	14.5	17.9	12.7	19.8	15.4	19.4	18.0	12.8
60 to 64.....	9.3	10.5	9.5	6.9	12.2	10.2	10.9	9.0	8.4
65 to 75.....	5.5	6.0	7.7	3.9	14.3	4.1	4.2	3.4	S
Citizenship status:									
U.S. citizen.....	90.1	90.7	97.2	85.3	97.6	94.4	98.0	95.5	60.1
Native born.....	76.7	79.6	86.8	67.1	89.9	85.2	84.3	82.7	46.0
Naturalized.....	13.4	11.0	10.4	18.2	7.7	9.2	13.7	12.8	14.1
Non-U.S. citizen.....	9.9	9.3	2.8	14.7	2.4	5.6	2.0	4.5	39.9
Permanent resident.....	7.0	6.4	2.7	10.4	2.3	3.7	1.3	4.1	17.7
Temporary resident.....	2.9	2.9	S	4.3	S	1.9	0.7	0.4	22.2
Years since doctorate:									
5 years or less.....	20.3	21.3	18.2	21.7	7.9	20.6	19.1	17.3	27.5
6-10 years.....	17.8	16.9	17.8	20.5	13.3	17.7	14.6	16.2	17.0
11-15 years.....	14.4	13.8	15.2	14.5	14.0	17.7	14.0	18.5	14.3
16-20 years.....	13.1	12.2	15.6	13.2	16.7	10.8	13.9	17.0	15.3
21-25 years.....	12.1	11.8	13.4	11.2	16.1	12.6	14.9	13.0	9.0
More than 25 years.....	22.3	24.2	19.9	19.0	32.1	20.5	23.6	18.0	16.8

See explanatory information and SOURCE at end of table.

Table 44. Employed doctoral scientists and engineers, by selected demographic and employment-related characteristics and sector of employment: 2001

Page 2 of 2

Characteristics	Total	Universities and 4-year colleges	Other educational institutions	Private-for- profit	Self- employed	Private not- for-profit	Federal government	State and local government	Other sector
Number.....	574,890	245,060	17,980	196,940	30,420	28,430	38,050	16,580	1,430
[Percentage distribution]									
Primary or secondary work activities²:									
R&D.....	63.8	71.5	15.4	66.1	27.3	50.7	74.0	41.5	67.3
Applied research.....	35.5	33.4	6.4	40.1	15.5	35.5	56.4	31.6	49.7
Basic research.....	24.8	43.9	5.7	7.4	4.1	16.9	30.1	9.9	20.7
Development.....	12.6	2.6	3.2	28.7	8.4	7.5	8.9	5.7	13.3
Design.....	6.8	1.3	0.7	14.8	5.3	4.7	7.1	3.6	4.6
Teaching.....	31.8	64.3	72.6	2.4	9.2	8.4	3.3	5.6	S
Management, sales, and administration.....	37.7	25.8	30.5	47.8	42.8	52.4	41.5	56.6	53.7
Computer applications.....	12.4	5.8	8.6	20.9	7.8	11.6	16.8	13.5	S
Professional services.....	16.7	9.0	22.7	15.1	67.0	32.4	10.6	36.8	16.9
Other activities.....	5.4	3.9	7.4	5.0	8.7	7.7	9.0	10.6	12.6

¹ The race/ethnicity data shown are for all doctoral recipients, including temporary residents. 'Other' race included with 'white'.

² Details on work activities exceed total due to multiple responses.

KEY: S=Suppressed due to too few cases (fewer than 50 weighted cases).

NOTES: Numbers are rounded to nearest ten. Details may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 45. Employed doctoral scientists and engineers, by selected demographic and employment-related characteristics, race/ethnicity, and sex: 2001

Page 1 of 4

Characteristics	Total			White ¹			Black		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Number.....	574,890	427,770	147,110	455,220	337,870	117,340	15,050	9,320	5,730
[Percent distribution]									
Total.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Age:									
Under 35.....	9.5	8.3	13.1	8.5	7.4	11.6	10.4	8.0	14.4
35 to 39.....	13.9	13.0	16.7	11.6	10.6	14.4	12.6	11.8	13.9
40 to 44.....	15.2	14.6	16.7	14.1	13.3	16.2	15.5	16.1	14.4
45 to 49.....	16.1	15.5	17.7	16.3	15.6	18.4	18.1	16.6	20.5
50 to 54.....	15.8	15.7	16.1	16.9	16.6	17.7	17.8	18.4	17.0
55 to 59.....	14.8	15.8	11.6	16.4	17.7	12.8	13.8	14.5	12.6
60 to 64.....	9.3	10.6	5.3	10.3	11.8	5.9	6.4	7.8	4.1
65 to 75.....	5.5	6.4	2.8	6.0	7.0	3.1	5.5	6.9	3.2
Years since doctorate:									
5 years or less.....	20.3	17.5	28.4	17.2	14.3	25.6	28.3	24.0	35.4
6-10 years.....	17.8	16.1	22.9	15.8	13.8	21.5	20.0	19.6	20.6
11-15 years.....	14.4	13.6	16.9	14.5	13.4	17.7	16.8	17.2	16.1
16-20 years.....	13.1	12.9	13.5	14.1	13.8	14.9	11.6	11.7	11.5
21-25 years.....	12.1	13.0	9.4	13.2	14.2	10.4	12.5	13.4	11.1
More than 25 years.....	22.3	26.9	8.9	25.2	30.5	9.9	10.7	14.1	5.3
Citizenship status:									
U.S. citizen.....	90.1	89.7	91.5	96.3	96.2	96.5	86.3	81.2	94.6
Native born.....	76.7	75.2	80.9	90.8	90.3	92.3	65.0	52.8	85.0
Naturalized.....	13.4	14.4	10.5	5.4	5.8	4.2	21.3	28.4	9.7
Non-U.S. citizen.....	9.9	10.3	8.5	3.7	3.8	3.5	13.7	18.8	5.4
Permanent resident.....	7.0	7.3	6.0	2.6	2.7	2.5	9.3	12.9	3.6
Temporary resident.....	2.9	3.1	2.5	1.1	1.1	1.0	4.3	5.9	1.8
Employer location:									
New England.....	8.3	8.0	9.1	8.5	8.1	9.4	5.0	4.6	5.8
Middle Atlantic.....	16.2	15.8	17.3	16.0	15.5	17.5	15.3	16.6	13.0
East North Central.....	13.5	13.5	13.6	13.7	13.6	14.2	12.6	11.6	14.3
West North Central.....	5.9	6.0	5.7	6.3	6.3	6.1	4.3	5.9	1.7
South Atlantic.....	19.0	18.8	19.7	19.3	19.3	19.3	34.0	33.5	34.8
East South Central.....	3.8	4.0	3.4	4.0	4.2	3.5	6.7	7.0	6.2
West South Central.....	7.8	8.2	6.5	7.4	7.9	6.1	8.9	8.9	8.9
Mountain.....	6.6	6.9	5.7	7.3	7.6	6.3	2.3	2.9	1.4
Pacific.....	18.5	18.5	18.5	17.3	17.3	17.4	10.8	9.0	13.8
U.S. territories and other areas.....	0.4	0.3	0.4	0.2	0.2	0.1	S	S	S

See explanatory information and SOURCE at end of table.

Table 45. Employed doctoral scientists and engineers, by selected demographic and employment-related characteristics, race/ethnicity, and sex: 2001

Page 2 of 4

Characteristics	Total			White ¹			Black		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Number.....	574,890	427,770	147,110	455,220	337,870	117,340	15,050	9,320	5,730
[Percent distribution]									
Sector of employment:									
Universities and 4-year colleges.....	42.6	41.0	47.3	44.1	42.8	47.7	53.1	51.4	55.9
Other educational institutions.....	3.1	2.5	5.0	3.3	2.7	5.3	6.8	6.1	8.0
Private-for-profit.....	34.3	37.9	23.7	30.8	34.2	20.9	22.9	26.6	16.9
Self-employed.....	5.3	4.3	8.1	6.2	5.0	9.5	2.8	3.2	2.0
Private not-for-profit.....	4.9	4.2	7.0	5.4	4.6	7.6	3.5	3.2	4.0
Federal government.....	6.6	7.0	5.6	7.0	7.5	5.7	6.5	5.6	7.9
State and local government.....	2.9	2.8	3.1	3.0	3.0	3.1	4.2	3.5	5.1
Other sector.....	0.2	0.3	0.2	0.2	0.2	0.2	S	S	S
Primary or secondary work activities²:									
R&D.....	63.8	66.4	56.3	61.5	64.3	53.3	58.3	61.2	53.7
Applied research.....	35.5	36.5	32.7	34.3	35.5	30.7	33.4	33.3	33.5
Basic research.....	24.8	25.0	24.3	24.4	24.8	23.0	22.6	25.1	18.7
Development.....	12.6	14.1	8.4	10.8	12.1	7.1	9.2	10.2	7.6
Design.....	6.8	8.0	3.2	5.9	7.0	2.7	4.0	4.7	2.7
Teaching.....	31.8	30.5	35.6	33.6	32.4	37.3	44.1	43.9	44.3
Management, sales, and administration.....	37.7	37.8	37.4	39.1	39.3	38.8	37.2	37.5	36.8
Computer applications.....	12.4	14.2	7.2	10.8	12.6	5.8	10.1	12.2	6.6
Professional services.....	16.7	13.6	25.5	18.3	15.1	27.7	18.1	13.1	26.2
Other activities.....	5.4	4.9	6.7	5.6	5.1	7.1	6.3	6.1	6.7
Federal support:									
Receiving support.....	29.5	29.7	29.2	30.4	30.8	29.1	25.7	25.6	25.8
Not receiving support.....	70.5	70.3	70.8	69.6	69.2	70.9	74.3	74.4	74.2
Relationship between degree and job:									
Closely related.....	68.0	67.0	71.2	69.0	67.8	72.6	70.2	70.0	70.6
Somewhat related.....	24.3	25.1	22.0	23.5	24.3	21.1	22.5	22.5	22.4
Not related.....	7.7	7.9	6.9	7.5	7.9	6.3	7.3	7.5	7.0

See explanatory information and SOURCE at end of table.

Table 45. Employed doctoral scientists and engineers, by selected demographic and employment-related characteristics, race/ethnicity, and sex: 2001

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Characteristics	Asian/Pacific Islander			Hispanic			American Indian/Alaskan Native		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Number.....	87,770	69,170	18,600	15,020	10,080	4,940	1,840	1,330	500
[Percent distribution]									
Age:									
Under 35.....	14.6	12.8	21.4	11.1	9.0	15.4	9.0	8.3	10.8
35 to 39.....	25.7	24.2	31.4	17.8	16.5	20.3	11.0	11.0	11.3
40 to 44.....	20.1	20.2	19.7	19.9	19.5	20.6	12.2	11.4	14.3
45 to 49.....	14.7	15.3	12.8	17.4	16.8	18.5	11.1	8.7	17.5
50 to 54.....	10.0	11.1	6.2	12.5	12.4	12.8	18.4	16.9	22.4
55 to 59.....	7.0	7.6	4.8	9.7	10.1	8.8	20.7	23.8	12.4
60 to 64.....	4.9	5.5	2.5	7.9	10.6	2.3	11.2	12.5	S
65 to 75.....	3.0	3.4	1.3	3.9	5.1	1.5	6.4	7.5	S
Years since doctorate:									
5 years or less.....	33.3	31.0	41.9	28.8	25.9	34.6	25.8	18.9	44.3
6-10 years.....	27.4	26.5	30.7	22.2	18.9	28.9	18.0	17.1	20.2
11-15 years.....	13.2	13.6	11.7	17.8	16.8	19.8	10.6	10.8	10.1
16-20 years.....	8.8	9.4	6.3	10.1	9.9	10.5	11.3	11.3	11.5
21-25 years.....	6.7	7.4	4.2	8.6	11.0	3.7	13.0	15.4	S
More than 25 years.....	10.6	12.1	5.2	12.6	17.5	2.6	21.2	26.5	S
Citizenship status:									
U.S. citizen.....	60.5	60.5	60.4	80.3	78.6	83.6	99.8	99.8	100.0
Native born.....	8.4	7.1	13.2	56.5	55.0	59.6	97.5	96.5	100.0
Naturalized.....	52.1	53.4	47.2	23.8	23.6	24.1	S	S	S
Non-U.S. citizen.....	39.5	39.5	39.6	19.7	21.4	16.4	S	S	S
Permanent resident.....	27.9	27.9	28.1	13.2	15.1	9.5	S	S	S
Temporary resident.....	11.6	11.6	11.5	6.5	6.3	6.8	S	S	S
Employer location:									
New England.....	8.1	7.7	9.4	6.7	7.4	5.4	3.3	S	S
Middle Atlantic.....	18.0	18.0	18.4	12.5	11.5	14.7	7.4	6.0	11.2
East North Central.....	13.1	13.7	10.9	10.5	11.3	9.0	18.5	21.9	S
West North Central.....	4.7	4.6	5.1	4.0	4.3	3.2	7.4	6.7	S
South Atlantic.....	15.0	14.4	17.2	19.0	18.2	20.5	14.1	12.8	17.3
East South Central.....	2.5	2.6	2.5	2.4	3.0	1.2	7.7	7.6	S
West South Central.....	8.6	9.1	6.7	10.9	10.9	10.9	18.2	20.8	11.1
Mountain.....	3.5	3.7	3.1	7.9	8.1	7.4	10.2	10.9	S
Pacific.....	26.2	26.1	26.6	18.2	17.9	18.9	13.1	9.5	22.7
U.S. territories and other areas.....	0.1	0.2	S	7.9	7.4	8.9	S	S	S

See explanatory information and SOURCE at end of table.

Table 45. Employed doctoral scientists and engineers, by selected demographic and employment-related characteristics, race/ethnicity, and sex: 2001

Page 4 of 4

Characteristics	Asian/Pacific Islander			Hispanic			American Indian/Alaskan Native		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Number.....	87,770	69,170	18,600	15,020	10,080	4,940	1,840	1,330	500
[Percent distribution]									
Sector of employment:									
Universities and 4-year colleges.....	31.6	29.3	40.0	52.1	51.2	54.0	45.9	48.6	38.6
Other educational institutions.....	1.2	1.0	1.8	4.0	2.4	7.1	5.0	6.5	S
Private-for-profit.....	55.8	58.7	44.9	25.9	29.3	19.0	24.1	24.9	22.0
Self-employed.....	1.5	1.5	1.6	4.0	3.4	5.3	5.1	S	13.1
Private not-for-profit.....	3.1	2.7	4.4	4.3	3.3	6.4	7.3	5.5	12.2
Federal government.....	4.8	4.8	4.5	5.4	6.1	4.0	7.1	6.1	S
State and local government.....	1.9	1.8	2.3	2.9	2.8	3.1	5.0	5.8	S
Other sector.....	0.3	0.2	0.4	1.3	1.5	1.1	S	S	S
Primary or secondary work activities²:									
R&D.....	76.5	76.8	75.6	68.0	72.6	58.7	51.3	53.6	45.4
Applied research.....	42.2	41.3	45.2	36.9	39.3	32.2	33.4	33.5	33.2
Basic research.....	26.6	24.3	35.1	31.2	35.0	23.5	19.2	22.0	11.9
Development.....	23.3	25.0	16.9	10.2	10.2	10.1	8.3	9.1	S
Design.....	12.1	13.5	6.6	4.1	4.8	2.8	S	S	S
Teaching.....	19.0	18.6	20.5	38.5	36.6	42.4	36.2	39.4	27.9
Management, sales, and administration.....	30.7	31.2	28.8	34.8	33.6	37.1	38.7	37.3	42.6
Computer applications.....	21.8	23.1	17.2	8.9	11.0	4.6	11.1	12.7	S
Professional services.....	7.3	6.3	11.4	17.4	14.0	24.4	26.2	22.5	36.1
Other activities.....	4.1	4.0	4.3	4.8	4.6	5.2	9.4	8.5	12.0
Federal support:									
Receiving support.....	24.7	23.3	30.2	35.4	37.5	31.2	31.7	27.9	41.9
Not receiving support.....	75.3	76.7	69.8	64.6	62.5	68.8	68.3	72.1	58.1
Relationship between degree and job:									
Closely related.....	61.1	61.2	60.8	75.9	75.4	76.7	70.7	70.7	70.5
Somewhat related.....	30.2	30.6	28.8	16.8	16.7	16.9	20.2	19.2	22.8
Not related.....	8.7	8.2	10.4	7.4	7.9	6.3	9.2	10.1	S

¹ 'Other' race included with 'white'.

² Details on work activities exceed total due to multiple responses.

KEY: S=Suppressed due to too few cases (fewer than 50 weighted cases).

NOTE: The race/ethnicity data shown are for all doctoral recipients, including temporary residents. Numbers are rounded to nearest ten. Details may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 46. Employed doctoral scientists and engineers, by selected demographic and employment-related characteristics and primary or secondary work activities: 2001

Page 1 of 2

Characteristics	Total	Research and development					Teaching	Management, sales, and administration	Computer applications	Professional services	Other activities
		Total	Applied research	Basic research	Development	Design					
Number.....	574,890	366,870	204,230	142,620	72,690	38,810	182,870	216,650	71,390	95,720	30,820
[Percent distribution]											
Sex:											
Male.....	74.4	77.4	76.5	74.9	82.9	87.9	71.4	74.6	85.2	60.8	68.0
Female.....	25.6	22.6	23.5	25.1	17.1	12.1	28.6	25.4	14.8	39.2	32.0
Race/ethnicity¹											
White.....	79.2	76.3	76.4	77.7	67.7	69.5	83.7	82.2	68.9	87.2	82.5
Black.....	2.6	2.4	2.5	2.4	1.9	1.5	3.6	2.6	2.1	2.8	3.1
Asian/Pacific Islander.....	15.3	18.3	18.1	16.3	28.1	27.3	9.1	12.4	26.8	6.7	11.6
Hispanic.....	2.6	2.8	2.7	3.3	2.1	1.6	3.2	2.4	1.9	2.7	2.3
American Indian/Alaskan Native	0.3	0.3	0.3	0.2	0.2	S	0.4	0.3	0.3	0.5	0.6
Age:											
Under 35.....	9.5	12.0	12.6	14.1	11.4	12.9	7.3	6.3	13.7	6.3	6.6
35 to 39.....	13.9	16.3	16.0	17.5	18.3	18.0	11.6	11.7	18.2	10.5	9.2
40 to 44.....	15.2	16.6	16.6	16.3	17.6	16.1	14.3	14.7	17.5	12.7	13.4
45 to 49.....	16.1	16.1	16.4	15.9	16.0	15.4	15.8	17.1	14.1	17.6	13.9
50 to 54.....	15.8	14.2	14.3	12.9	13.3	14.1	16.3	18.2	13.4	19.5	16.7
55 to 59.....	14.8	12.2	12.2	10.5	12.4	12.7	16.1	17.4	13.1	17.0	17.6
60 to 64.....	9.3	7.9	7.5	8.0	6.9	7.4	11.6	10.0	7.2	9.2	13.8
65 to 75.....	5.5	4.6	4.5	4.9	4.1	3.5	7.0	4.5	2.9	7.3	8.9
Years since doctorate:											
5 years or less.....	20.3	23.8	25.8	25.5	23.4	26.0	17.0	14.6	28.8	16.3	15.3
6-10 years.....	17.8	18.7	18.5	18.3	20.0	21.0	17.1	16.7	20.9	17.2	15.9
11-15 years.....	14.4	14.4	14.5	14.0	14.4	12.3	14.5	15.2	13.8	15.5	13.1
16-20 years.....	13.1	12.4	12.0	12.0	12.8	11.0	13.0	15.2	9.7	15.6	13.0
21-25 years.....	12.1	11.0	10.8	10.3	10.6	11.5	12.0	14.5	10.2	13.5	13.8
More than 25 years.....	22.3	19.7	18.4	19.9	18.9	18.3	26.4	23.9	16.7	21.9	28.9

See explanatory information and SOURCE at end of table.

Table 46. Employed doctoral scientists and engineers, by selected demographic and employment-related characteristics and primary or secondary work activities: 2001

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Characteristics	Total	Research and development					Teaching	Management, sales, and administration	Computer applications	Professional services	Other activities
		Total	Applied research	Basic research	Development	Design					
Number.....	574,890	366,870	204,230	142,620	72,690	38,810	182,870	216,650	71,390	95,720	30,820
[Percentage distribution]											
Citizenship status:											
U.S. citizen.....	90.1	87.3	87.2	86.5	84.8	82.5	93.3	93.3	81.9	96.5	94.4
Native born.....	76.7	72.6	73.2	73.7	64.3	64.3	81.9	80.8	63.0	87.8	81.9
Naturalized.....	13.4	14.7	14.0	12.8	20.5	18.2	11.4	12.5	18.9	8.7	12.5
Non-U.S. citizen.....	9.9	12.7	12.8	13.5	15.2	17.5	6.7	6.7	18.1	3.5	5.6
Permanent resident.....	7.0	8.6	8.2	9.2	10.5	11.8	5.3	5.3	12.2	2.7	4.4
Temporary resident.....	2.9	4.1	4.6	4.4	4.7	5.7	1.4	1.4	5.9	0.8	1.3
Sector of employment:											
Universities and 4-year colleges.....	42.6	47.8	40.0	75.5	8.9	8.5	86.2	29.2	20.1	22.9	30.8
Other educational institutions.....	3.1	0.8	0.6	0.7	0.8	0.3	7.1	2.5	2.2	4.3	4.3
Private-for-profit.....	34.3	35.5	38.7	10.2	77.7	75.0	2.6	43.4	57.6	31.1	31.8
Self-employed.....	5.3	2.3	2.3	0.9	3.5	4.2	1.5	6.0	3.3	21.3	8.6
Private not-for-profit.....	4.9	3.9	4.9	3.4	2.9	3.4	1.3	6.9	4.6	9.6	7.1
Federal government.....	6.6	7.7	10.5	8.0	4.7	6.9	0.7	7.3	9.0	4.2	11.1
State and local government.....	2.9	1.9	2.6	1.2	1.3	1.5	0.5	4.3	3.1	6.4	5.7
Other sector.....	0.2	0.3	0.3	0.2	0.3	0.2	S	0.4	S	0.3	0.6
Employer location:											
New England.....	8.3	8.9	8.9	9.5	8.1	8.3	8.3	7.8	8.7	7.7	5.7
Middle Atlantic.....	16.2	15.9	15.6	16.4	17.0	14.8	15.8	15.8	15.3	18.5	13.6
East North Central.....	13.5	13.9	13.1	14.2	15.1	12.8	16.6	12.5	12.1	11.7	12.6
West North Central.....	5.9	5.8	5.8	6.4	4.8	3.5	7.7	5.6	3.7	6.5	5.7
South Atlantic.....	19.0	18.6	20.2	19.1	15.1	14.8	18.0	20.0	18.6	18.2	25.6
East South Central.....	3.8	3.6	3.7	3.7	2.8	2.8	5.2	3.8	2.6	3.4	4.6
West South Central.....	7.8	7.7	7.0	7.5	7.8	11.0	8.4	7.6	8.1	8.0	7.3
Mountain.....	6.6	6.6	7.0	6.5	5.5	6.4	6.5	6.4	7.6	6.4	6.9
Pacific.....	18.5	18.7	18.3	16.4	23.6	25.2	13.0	20.0	23.2	19.2	17.1
U.S. territories and other areas.....	0.4	0.3	0.3	0.3	0.2	0.4	0.4	0.5	0.1	0.3	0.7

¹ The race/ethnicity data shown are for all doctoral recipients, including temporary residents. 'Other' race included with 'white'.

KEY: S=Suppressed due to too few cases (fewer than 50 weighted cases).

NOTE: Percentages may not sum to 100 due to rounding. Numbers are rounded to nearest ten. Numbers for work activities sum to more than the total because of multiple responses.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 47. Employed doctoral scientists and engineers, by field of doctorate and broad occupation: 2001

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Field of doctorate	Total	S&E occupations												Non-S&E occupations							
		All S&E occupa-tions	Computer and information scientists		Mathematical scientists		Life and related scientists		Physical and related scientists		Social and related scientists		Psychologists		Engineers		All non-S&E occupa-tions	Top/mid managers, admin.	Health and related	Teachers, except S&E post-secondary	Other
			Postsec. teachers	Other	Postsec. teachers	Other	Postsec. teachers	Other	Postsec. teachers	Other	Postsec. teachers	Other	Postsec. teachers	Other	Postsec. teachers	Other					
[Percentage distribution]																					
All fields.....	574,890	100.0	1.1	4.9	2.3	1.5	6.3	12.5	4.5	8.4	5.6	2.6	3.0	8.7	2.9	10.2	25.6	13.3	3.0	4.1	5.3
Sciences.....	475,300	100.0	1.1	4.2	2.7	1.6	7.5	14.9	5.3	9.6	6.7	3.2	3.6	10.5	0.3	2.1	26.8	12.9	3.5	4.6	5.7
Computer/information sciences.....	10,780	100.0	26.9	50.6	0.2	0.6	S	0.4	S	0.1	0.1	S	0.2	S	0.9	2.0	17.9	12.7	0.1	1.3	3.9
Mathematical sciences.....	25,960	100.0	4.8	13.9	44.8	14.6	0.2	0.7	0.2	0.6	0.1	S	0.1	0.1	1.0	1.6	17.2	8.8	0.4	1.5	6.5
Biological and agricultural sciences.....	140,790	100.0	0.2	1.5	0.3	0.8	22.5	42.5	1.7	1.4	0.2	0.2	0.2	0.1	0.2	0.9	27.5	12.1	7.0	2.6	5.8
Agricultural/ food sciences.....	16,950	100.0	0.3	1.2	S	S	20.5	46.8	1.7	2.7	0.5	S	S	0.2	1.1	25.0	14.0	1.5	2.0	7.5	
Biological sciences.....	118,600	100.0	0.1	1.5	0.3	0.9	23.0	42.3	1.6	1.0	S	0.1	0.2	0.1	0.1	0.7	27.9	11.6	8.0	2.7	5.6
Environmental life sciences.....	5,240	100.0	S	0.7	0.5	0.5	16.8	32.7	4.8	6.8	2.1	2.1	0.1	S	1.7	6.0	25.2	18.0	1.0	2.5	3.8
Health sciences.....	21,390	100.0	0.1	0.6	S	0.9	6.4	17.3	0.3	2.2	0.7	1.7	1.0	0.8	S	0.7	67.3	17.0	17.0	30.3	3.0
Physical and related sciences.....	111,330	100.0	0.4	5.5	0.3	0.4	1.0	4.7	20.0	38.4	0.1	0.1	S	S	0.6	6.8	21.7	13.3	1.1	1.5	5.7
Chemistry except biochemistry.....	56,100	100.0	0.3	2.8	S	S	0.8	7.7	17.6	40.8	S	S	S	0.2	4.7	25.1	16.0	1.6	1.5	6.0	
Earth/atmos/ocean sciences.....	16,590	100.0	0.3	3.4	0.2	0.2	1.2	3.1	28.5	40.8	0.3	0.1	S	S	0.8	3.8	17.2	10.2	0.4	2.2	4.5
Physics and astronomy.....	38,640	100.0	0.6	10.2	0.9	1.1	1.1	1.1	19.7	33.9	0.1	0.3	0.1	S	1.2	11.2	18.6	10.9	0.8	1.1	5.8
Social sciences.....	76,170	100.0	0.4	1.9	0.6	1.7	0.8	0.8	0.5	0.3	41.0	17.8	0.3	0.6	S	0.2	33.2	16.1	0.9	9.0	7.1
Economics.....	21,690	100.0	0.3	1.1	S	1.7	1.4	0.5	0.3	0.2	39.0	30.9	S	0.1	0.1	0.1	24.3	15.6	0.1	5.0	3.6
Political and related sciences.....	16,910	100.0	0.3	1.5	S	0.3	S	0.3	S	S	51.1	11.4	S	0.3	S	0.6	34.2	19.8	0.8	5.8	7.9
Sociology.....	13,710	100.0	0.3	1.5	0.6	2.3	0.2	0.4	S	S	47.9	15.7	0.4	0.9	S	0.2	29.7	15.2	1.4	6.7	6.4
Other social sciences.....	23,850	100.0	0.6	3.1	1.5	2.5	1.1	1.7	1.2	0.8	31.5	11.6	0.6	1.2	S	S	42.4	14.6	1.5	16.3	10.0
Psychology.....	88,890	100.0	0.1	1.3	S	0.6	0.9	1.3	S	0.1	0.3	0.8	18.2	55.2	0.1	0.4	20.6	11.3	1.1	3.2	4.9

See explanatory information and SOURCE at end of table.

Table 47. Employed doctoral scientists and engineers, by field of doctorate and broad occupation: 2001

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Field of doctorate	Total	S&E occupations												Non-S&E occupations							
		All S&E occupat- ions	Computer and information scientists		Mathematical scientists		Life and related scientists		Physical and related scientists		Social and related scientists		Psychologists		Engineers		All non- S&E occupat- ions	Top/mid managers, admin.	Health and related	Teachers, except S&E post- secondary	Other
			Postsec. teacher	Other	Postsec. teacher	Other	Postsec. teacher	Other	Postsec. teacher	Other	Postsec. teacher	Other	Postsec. teacher	Other	Postsec. teacher	Other					
[Percentage distribution]																					
Engineering.....	99,580	100.0	8.4	1.1	1.0	0.4	1.0	0.6	2.5	0.6	0.1	0.1	S	S	48.6	15.5	20.1	14.7	0.7	1.3	3.4
Aerospace/aeronautical engineering....	4,040	100.0	7.6	S	0.6	S	1.1	S	2.8	S	S	S	S	S	49.9	20.8	17.1	12.3	1.1	0.9	2.7
Chemical engineering.....	13,630	100.0	4.9	0.4	0.4	0.5	0.7	0.5	1.8	0.5	0.3	S	S	S	56.8	10.6	22.5	17.1	1.2	0.9	3.4
Civil engineering.....	9,320	100.0	4.1	0.4	0.3	0.2	0.1	S	2.2	0.5	S	0.1	S	S	46.3	28.6	17.2	11.4	S	1.2	4.6
Electrical/computer engineering.....	27,050	100.0	14.8	2.2	0.6	0.1	0.2	0.1	1.5	0.4	S	0.1	S	S	44.1	15.3	20.5	16.7	0.6	0.5	2.7
Materials/metallurgical engineering.....	10,460	100.0	4.4	0.2	S	S	0.2	0.2	4.1	0.6	S	S	0.2	S	61.3	9.3	19.3	15.3	S	0.7	3.4
Mechanical engineering.....	12,670	100.0	6.6	0.3	0.6	0.2	0.6	0.1	1.6	0.2	S	S	S	S	55.2	16.0	18.6	12.8	0.5	0.7	4.7
Other engineering.....	22,410	100.0	7.6	1.6	2.8	1.3	2.9	2.0	4.1	1.1	0.2	0.5	S	S	39.9	15.1	21.0	13.6	1.2	3.2	3.0

KEY: S=Suppressed due to too few cases (fewer than 50 weighted cases).

NOTE Numbers are rounded to nearest ten. Details may not add to total because of rounding.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

**Table 48. Median annual salaries of full-time employed doctoral scientists and engineers,
by field of doctorate, race/ethnicity, and sex: 2001**

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Field of doctorate	Total			White ¹			Black		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
All fields.....	\$77,000	\$81,000	\$62,000	\$77,000	\$82,000	\$62,000	\$67,000	\$70,000	\$60,000
Sciences.....	73,000	78,000	61,000	75,000	80,000	61,000	63,300	68,000	60,000
Computer and information sciences.....	96,000	100,000	80,000	96,000	100,000	76,000	82,000	S	S
Mathematical sciences.....	75,000	75,500	64,000	76,000	78,000	60,000	63,000	63,000	S
Biological and agricultural sciences.....	70,000	75,000	60,000	72,000	76,000	61,000	62,500	66,700	59,000
Agricultural/food sciences.....	68,900	70,000	60,000	70,000	72,600	65,000	48,500	48,500	S
Biological sciences.....	70,000	75,000	60,000	73,000	78,000	61,900	66,700	68,000	59,000
Environmental life sciences.....	69,200	70,100	51,000	70,000	72,000	51,000	S	S	S
Health sciences.....	70,000	80,000	62,500	70,000	81,000	62,000	70,000	74,500	66,000
Physical and related sciences.....	82,600	85,000	72,000	84,500	85,000	70,000	73,000	75,000	71,000
Chemistry except biochemistry.....	82,400	84,600	74,000	85,000	86,000	75,000	75,000	75,000	71,000
Earth/atmos/ocean sciences.....	72,000	75,000	56,000	74,000	78,000	56,800	S	S	S
Physics and astronomy.....	88,500	90,000	75,000	88,000	89,600	69,000	79,600	76,000	S
Social sciences.....	68,000	72,000	60,000	70,000	74,000	60,000	62,800	65,000	61,000
Economics.....	84,000	85,000	78,000	85,000	87,000	79,000	68,000	68,000	S
Political and related sciences.....	65,000	70,000	59,000	66,000	70,000	60,000	70,000	72,000	60,000
Sociology.....	60,000	63,000	58,000	61,700	64,000	60,000	58,000	66,000	55,400
Other social sciences.....	60,000	64,500	55,000	60,000	65,000	55,000	59,000	54,000	61,000
Psychology.....	66,900	72,000	60,000	68,000	72,800	60,000	60,000	63,300	55,300
Engineering.....	90,500	92,600	80,000	93,000	95,000	80,000	81,100	83,000	S
Aerospace/aeronautical engineering.....	90,000	90,000	S	90,000	90,000	S	S	S	S
Chemical engineering.....	92,000	93,000	80,400	95,000	96,000	85,000	S	S	S
Civil engineering.....	81,000	83,300	60,000	85,000	85,000	60,000	67,000	60,000	S
Electrical/computer engineering.....	100,000	100,000	85,000	100,000	102,000	83,600	90,000	93,000	S
Materials/metallurgical engineering.....	90,000	90,000	84,000	92,000	93,700	85,000	S	S	S
Mechanical engineering.....	87,000	87,000	67,400	88,000	88,000	S	S	S	S
Other engineering.....	87,000	90,000	75,000	90,000	92,500	76,000	86,000	94,000	S

See explanatory information and SOURCE at end of table.

**Table 48. Median annual salaries of full-time employed doctoral scientists and engineers,
by field of doctorate, race/ethnicity, and sex: 2001**

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Field of doctorate	Asian/Pacific Islander			Hispanic			American Indian/Alaskan Native		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
All fields.....	\$80,000	\$82,000	\$65,000	\$69,000	\$75,000	\$55,400	\$64,000	\$64,000	\$64,000
Sciences.....	72,000	75,000	63,000	65,000	71,700	55,000	62,000	60,000	64,000
Computer and information sciences.....	98,000	98,000	98,500	103,000	103,000	S	S	S	S
Mathematical sciences.....	70,000	70,500	70,000	67,000	70,000	S	S	S	S
Biological and agricultural sciences.....	60,000	62,000	56,000	62,000	67,000	48,500	70,000	68,000	S
Agricultural/food sciences.....	59,000	60,000	50,000	65,000	68,500	S	S	S	S
Biological sciences.....	60,000	65,000	58,000	58,300	65,400	48,000	75,000	S	S
Environmental life sciences.....	55,000	S	S	S	S	S	S	S	S
Health sciences.....	80,000	85,000	72,500	60,000	72,000	55,000	S	S	S
Physical and related sciences.....	80,000	81,000	75,000	76,000	81,000	60,000	68,000	73,000	S
Chemistry except biochemistry.....	80,000	80,000	75,000	76,000	84,000	57,000	S	S	S
Earth/atmos/ocean sciences.....	62,000	63,000	56,000	65,000	75,000	S	S	S	S
Physics and astronomy.....	90,000	90,000	82,500	81,000	81,000	S	S	S	S
Social sciences.....	65,000	70,000	56,000	63,000	65,000	54,000	54,000	54,000	S
Economics.....	71,700	74,000	65,000	75,000	76,000	S	S	S	S
Political and related sciences.....	59,000	67,000	50,000	62,000	63,000	S	S	S	S
Sociology.....	58,000	58,000	58,000	55,000	55,000	54,000	S	S	S
Other social sciences.....	55,000	65,000	52,000	59,000	60,000	52,000	S	S	S
Psychology.....	55,000	55,000	54,000	58,000	65,000	56,800	64,000	58,400	S
Engineering.....	90,000	90,000	80,000	82,000	82,000	S	S	S	S
Aerospace/aeronautical engineering.....	86,500	86,500	S	S	S	S	S	S	S
Chemical engineering.....	90,000	90,000	70,000	82,000	82,000	S	S	S	S
Civil engineering.....	80,000	80,000	S	60,000	60,000	S	S	S	S
Electrical/computer engineering.....	100,000	100,000	90,000	95,000	95,000	S	S	S	S
Materials/metallurgical engineering.....	85,000	85,000	80,000	S	S	S	S	S	S
Mechanical engineering.....	85,000	85,000	65,000	75,000	75,000	S	S	S	S
Other engineering.....	80,000	82,000	73,000	76,000	76,000	S	S	S	S

¹ 'Other' race included with 'white'.

KEY: S=Suppressed due to too few cases (fewer than 200 weighted cases).

NOTES: The race/ethnicity data shown are for all doctoral recipients, including temporary residents. Salaries are rounded to nearest hundred.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

**Table 49. Median annual salaries of full-time employed doctoral scientists and engineers,
by field of doctorate and citizenship status: 2001**

Field of doctorate	Total	U.S. citizen			Non-U.S. citizen		
		Total	Native born	Naturalized	Total	Permanent resident	Temporary resident
All fields.....	\$77,000	\$78,000	\$76,000	\$85,000	\$70,000	\$73,300	\$62,000
Sciences.....	73,000	75,000	73,700	80,000	62,400	67,800	50,000
Computer and information sciences.....	96,000	96,700	95,000	103,000	95,000	100,000	85,000
Mathematical sciences.....	75,000	78,000	77,000	80,000	62,000	65,000	60,000
Biological and agricultural sciences.....	70,000	72,000	72,000	72,000	50,000	60,000	35,000
Agricultural/food sciences.....	68,900	70,000	72,000	65,000	48,500	53,000	40,000
Biological sciences.....	70,000	72,500	72,500	73,000	49,000	60,000	34,000
Environmental life sciences.....	69,200	69,200	69,200	70,000	61,000	72,000	S
Health sciences.....	70,000	70,000	69,500	85,000	70,000	70,000	74,000
Physical and related sciences.....	82,600	85,000	84,400	87,000	70,000	74,500	60,000
Chemistry except biochemistry.....	82,400	85,000	85,000	84,000	68,500	72,000	55,500
Earth/atmos/ocean sciences.....	72,000	74,500	74,900	74,000	54,000	54,000	60,000
Physics and astronomy.....	88,500	90,000	88,000	95,000	80,000	86,000	65,000
Social sciences.....	68,000	69,000	68,300	71,000	62,400	62,000	65,000
Economics.....	84,000	84,500	85,000	76,000	80,000	80,000	75,000
Political and related sciences.....	65,000	67,000	67,000	67,000	50,000	54,400	S
Sociology.....	60,000	61,000	60,000	64,000	52,000	52,000	S
Other social sciences.....	60,000	60,000	60,000	73,000	51,000	52,000	50,000
Psychology.....	66,900	67,000	67,000	65,000	60,000	65,000	45,000
Engineering.....	90,500	94,300	93,000	95,600	80,000	85,000	75,000
Aerospace/aeronautical engineering.....	90,000	91,800	90,000	98,000	79,400	80,000	S
Chemical engineering.....	92,000	95,000	94,300	98,000	80,600	84,000	71,500
Civil engineering.....	81,000	85,000	84,000	87,000	65,000	72,000	55,000
Electrical/computer engineering.....	100,000	102,000	101,300	105,000	93,000	100,000	86,000
Materials/metallurgical engineering.....	90,000	93,000	92,400	95,000	78,000	80,000	70,000
Mechanical engineering.....	87,000	89,000	89,000	89,000	80,000	80,000	74,000
Other engineering.....	87,000	90,000	90,000	90,000	72,500	75,400	66,500

KEY: S=Suppressed due to too few cases (fewer than 200 weighted cases).

NOTES: Salaries are rounded to nearest hundred.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

**Table 50. Median annual salaries of full-time employed doctoral scientists and engineers,
by field of doctorate and age: 2001**

Field of doctorate	Total	Under 35	35-39	40-44	45-49	50-54	55-59	60-64	65-75
All fields.....	\$77,000	\$59,000	\$68,000	\$75,000	\$80,000	\$83,000	\$85,000	\$88,000	\$85,000
Sciences.....	73,000	50,000	62,000	70,000	75,000	80,000	82,900	84,000	81,000
Computer and information sciences.....	96,000	96,000	100,000	100,000	95,000	95,000	89,000	S	S
Mathematical sciences.....	75,000	52,000	63,000	66,000	68,000	80,000	90,800	82,000	80,000
Biological and agricultural sciences.....	70,000	39,000	55,000	67,000	76,000	81,000	85,000	87,200	83,000
Agricultural/food sciences.....	68,900	56,000	60,000	67,000	70,000	76,000	76,000	84,000	60,000
Biological sciences.....	70,000	38,000	55,000	67,900	79,000	84,000	86,000	88,000	86,000
Environmental life sciences.....	69,200	45,000	60,000	60,000	72,200	77,700	82,000	75,000	S
Health sciences.....	70,000	60,000	63,000	67,000	68,000	76,000	75,000	75,000	80,000
Physical and related sciences.....	82,600	60,000	72,500	80,000	86,000	96,000	98,000	94,000	89,600
Chemistry except biochemistry.....	82,400	62,000	75,000	85,000	90,000	100,000	95,000	88,000	80,000
Earth/atmos/ocean sciences.....	72,000	50,000	60,000	58,000	63,000	85,000	91,000	90,000	100,000
Physics and astronomy.....	88,500	64,000	75,800	80,000	90,600	100,000	105,000	100,000	95,000
Social sciences.....	68,000	55,000	54,000	60,500	65,000	72,500	76,000	76,000	76,000
Economics.....	84,000	70,000	70,000	75,000	90,000	81,000	95,000	97,000	87,000
Political and related sciences.....	65,000	47,000	46,000	59,000	65,000	76,000	78,000	83,000	80,000
Sociology.....	60,000	45,000	50,000	53,000	56,000	69,000	70,000	70,000	72,000
Other social sciences.....	60,000	46,000	51,000	52,000	58,000	64,500	70,000	65,300	60,000
Psychology.....	66,900	46,500	56,000	60,000	70,000	72,800	72,000	72,000	79,000
Engineering.....	90,500	78,000	85,000	90,000	95,700	100,000	103,000	103,200	103,000
Aerospace/aeronautical engineering.....	90,000	76,000	85,000	82,000	97,000	100,000	93,000	93,000	S
Chemical engineering.....	92,000	78,000	85,300	92,000	100,000	105,000	103,000	97,100	93,000
Civil engineering.....	81,000	61,700	67,900	75,000	80,000	90,000	96,100	96,300	100,000
Electrical/computer engineering.....	100,000	90,000	97,000	100,000	100,000	110,000	120,000	109,000	103,800
Materials/metallurgical engineering.....	90,000	76,600	80,000	90,000	94,500	111,000	104,000	105,000	S
Mechanical engineering.....	87,000	72,000	80,000	85,000	87,500	100,000	100,000	103,200	111,000
Other engineering.....	87,000	72,000	75,000	80,000	94,000	100,000	100,000	114,000	100,000

KEY: S=Suppressed due to too few cases (fewer than 200 weighted cases).

NOTES: Salaries are rounded to nearest hundred.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 51. Median annual salaries of full-time employed doctoral scientists and engineers, by field of doctorate and years since doctorate: 2001

Field of doctorate	Total	5 years or less	6-10 years	11-15 years	16-20 years	21-25 years	More than 25 years
All fields.....	\$77,000	\$57,200	\$70,000	\$77,000	\$85,000	\$90,000	\$94,000
Sciences.....	73,000	50,000	65,000	72,500	80,000	88,000	90,000
Computer and information sciences.....	96,000	90,000	96,700	100,000	110,000	106,700	S
Mathematical sciences.....	75,000	51,000	65,500	64,700	80,000	80,000	90,000
Biological and agricultural sciences.....	70,000	42,000	62,500	74,000	83,800	90,000	89,600
Agricultural/food sciences.....	68,900	50,000	62,000	70,000	80,000	76,000	82,000
Biological sciences.....	70,000	40,000	62,200	75,000	84,000	91,000	90,000
Environmental life sciences.....	69,200	55,000	65,800	62,000	81,000	83,200	81,000
Health sciences.....	70,000	58,000	66,000	73,200	85,000	81,000	95,000
Physical and related sciences.....	82,600	61,200	74,000	81,000	90,000	100,000	98,000
Chemistry except biochemistry.....	82,400	65,000	75,000	85,000	94,000	100,000	92,000
Earth/atmos/ocean sciences.....	72,000	52,500	60,000	62,000	81,900	92,000	99,000
Physics and astronomy.....	88,500	65,000	78,000	81,000	92,000	102,000	100,800
Social sciences.....	68,000	51,000	56,000	64,000	74,000	78,000	86,000
Economics.....	84,000	68,000	72,000	80,000	85,000	97,000	100,000
Political and related sciences.....	65,000	48,000	54,400	60,000	68,000	84,000	86,000
Sociology.....	60,000	45,000	50,000	56,000	70,000	71,000	80,000
Other social sciences.....	60,000	46,000	51,000	60,000	68,000	68,000	76,000
Psychology.....	66,900	48,000	60,000	70,000	75,000	79,600	80,000
Engineering.....	90,500	77,200	88,000	95,000	100,000	103,000	106,000
Aerospace/aeronautical engineering.....	90,000	76,000	90,000	91,000	108,000	100,000	98,000
Chemical engineering.....	92,000	76,000	90,000	95,100	100,000	106,600	100,000
Civil engineering.....	81,000	60,000	80,000	89,200	87,000	101,000	100,000
Electrical/computer engineering.....	100,000	90,000	100,000	104,300	115,000	110,000	116,000
Materials/metallurgical engineering.....	90,000	75,000	82,000	100,000	100,000	100,000	108,000
Mechanical engineering.....	87,000	73,200	85,000	90,000	92,000	100,000	108,000
Other engineering.....	87,000	70,000	80,000	85,000	99,000	101,000	106,000

KEY: S=Suppressed due to too few cases (fewer than 200 weighted cases).

NOTES: Salaries are rounded to nearest hundred.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 52. Median annual salaries of full-time employed doctoral scientists and engineers, by field of doctorate and sector of employment: 2001

Field of doctorate	Total	Universities and 4-year colleges	Other educational institutions	Private-for-profit	Self-employed	Private not-for-profit	Federal Government	State and local government	Other sector
All fields.....	\$77,000	\$64,000	\$52,000	\$95,000	\$75,000	\$75,000	\$83,000	\$62,000	\$125,000
Sciences.....	73,000	62,000	52,000	93,000	75,000	73,000	82,000	62,000	130,000
Computer and information sciences.....	96,000	72,000	S	110,000	S	115,000	93,000	S	S
Mathematical sciences.....	75,000	62,000	54,000	100,000	60,000	92,000	92,000	62,000	S
Biological and agricultural sciences.....	70,000	61,000	46,000	90,000	60,000	72,200	76,000	60,000	S
Agricultural/food sciences.....	68,900	63,000	45,000	80,000	50,000	78,000	75,000	59,700	S
Biological sciences.....	70,000	61,000	46,000	91,000	60,000	71,500	76,400	65,000	S
Environmental life sciences.....	69,200	60,000	S	84,000	S	75,000	72,000	59,000	S
Health sciences.....	70,000	63,000	55,000	94,200	50,000	80,000	77,000	68,000	S
Physical and related sciences.....	82,600	62,000	48,000	93,900	80,000	88,500	90,000	69,000	S
Chemistry except biochemistry.....	82,400	58,200	47,300	92,000	75,000	80,000	85,000	58,000	S
Earth/atmos/ocean sciences.....	72,000	58,000	52,000	89,000	85,000	88,000	85,000	60,000	S
Physics and astronomy.....	88,500	70,000	50,000	100,000	100,000	95,000	96,000	99,900	S
Social sciences.....	68,000	62,000	50,600	100,000	75,000	79,000	85,000	62,000	130,000
Economics.....	84,000	75,000	52,000	120,000	75,000	85,700	90,000	72,000	130,000
Political and related sciences.....	65,000	60,000	50,000	104,000	110,000	82,000	102,000	63,000	S
Sociology.....	60,000	58,000	57,000	72,000	40,000	83,000	87,000	54,000	S
Other social sciences.....	60,000	56,200	50,000	90,000	70,000	64,000	70,800	57,000	S
Psychology.....	66,900	60,000	60,000	85,000	78,000	62,500	75,000	62,000	S
Engineering.....	90,500	80,000	44,100	96,000	100,000	91,500	90,000	67,600	S
Aerospace/aeronautical engineering.....	90,000	90,000	S	91,000	S	S	85,000	S	S
Chemical engineering.....	92,000	82,000	S	93,000	S	101,100	92,000	S	S
Civil engineering.....	81,000	76,000	S	91,600	120,000	72,000	91,000	64,700	S
Electrical/computer engineering.....	100,000	83,300	S	106,000	100,000	103,000	94,000	S	S
Materials/metallurgical engineering.....	90,000	78,000	S	91,000	S	85,000	86,000	S	S
Mechanical engineering.....	87,000	78,000	S	89,000	S	95,000	90,000	S	S
Other engineering.....	87,000	77,000	S	95,000	75,000	86,000	92,000	67,000	S

KEY: S=Suppressed due to too few cases (fewer than 200 weighted cases).

NOTES: Salaries are rounded to nearest hundred.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 53. Median annual salaries of full-time employed doctoral scientists and engineers, by sector of employment, broad field of doctorate, and sex: 2001

Page 1 of 2

Employment sector/field of doctorate	Total	Male	Female
All sectors.....	\$77,000	\$81,000	\$62,000
Sciences.....	73,000	78,000	61,000
Computer and information sciences.....	96,000	100,000	80,000
Mathematical sciences.....	75,000	75,500	64,000
Biological and agricultural sciences.....	70,000	75,000	60,000
Health sciences.....	70,000	80,000	62,500
Physical and related sciences.....	82,600	85,000	72,000
Social sciences.....	68,000	72,000	60,000
Psychology.....	66,900	72,000	60,000
Engineering.....	90,500	92,600	80,000
Universities and 4-year colleges.....	64,000	69,000	54,000
Sciences.....	62,000	65,300	54,000
Computer and information sciences.....	72,000	72,000	70,000
Mathematical sciences.....	62,000	65,000	51,000
Biological and agricultural sciences.....	61,000	65,000	51,000
Health sciences.....	63,000	69,500	60,000
Physical and related sciences.....	62,000	65,000	50,000
Social sciences.....	62,000	67,000	55,000
Psychology.....	60,000	65,000	54,000
Engineering.....	80,000	80,800	64,000
Other educational institutions.....	52,000	52,000	52,000
Sciences.....	52,000	52,000	52,000
Computer and information sciences.....	S	S	S
Mathematical sciences.....	54,000	54,000	S
Biological and agricultural sciences.....	46,000	48,000	43,000
Health sciences.....	55,000	S	57,000
Physical and related sciences.....	48,000	50,000	43,500
Social sciences.....	50,600	50,000	52,200
Psychology.....	60,000	64,500	55,000
Engineering.....	44,100	44,100	S
Private-for-profit.....	95,000	97,000	82,500
Sciences.....	93,000	96,000	80,800
Computer and information sciences.....	110,000	112,000	100,000
Mathematical sciences.....	100,000	100,000	95,000
Biological and agricultural sciences.....	90,000	93,000	78,000
Health sciences.....	94,200	100,000	80,000
Physical and related sciences.....	93,900	95,000	86,600
Social sciences.....	100,000	100,000	85,000
Psychology.....	85,000	95,000	74,000
Engineering.....	96,000	98,000	86,600
Self-employed.....	75,000	81,000	62,300
Sciences.....	75,000	80,000	65,000
Computer and information sciences.....	S	S	S
Mathematical sciences.....	60,000	50,000	S
Biological and agricultural sciences.....	60,000	62,500	60,000
Health sciences.....	50,000	100,000	33,000
Physical and related sciences.....	80,000	85,000	S
Social sciences.....	75,000	90,000	50,000
Psychology.....	78,000	90,000	70,000
Engineering.....	100,000	100,000	S

See explanatory information and SOURCE at end of table.

Table 53. Median annual salaries of full-time employed doctoral scientists and engineers, by sector of employment, broad field of doctorate, and sex: 2001

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Employment sector/field of doctorate	Total	Male	Female
Private not-for-profit.....	\$75,000	\$80,000	\$65,000
Sciences.....	73,000	80,000	64,000
Computer and information sciences.....	115,000	S	S
Mathematical sciences.....	92,000	97,100	S
Biological and agricultural sciences.....	72,200	80,000	59,600
Health sciences.....	80,000	95,000	73,000
Physical and related sciences.....	88,500	90,600	73,400
Social sciences.....	79,000	78,000	79,300
Psychology.....	62,500	67,000	60,000
Engineering.....	91,500	93,000	85,000
Federal Government.....	83,000	85,300	75,000
Sciences.....	82,000	84,700	75,000
Computer and information sciences.....	93,000	100,000	S
Mathematical sciences.....	92,000	92,000	S
Biological and agricultural sciences.....	76,000	79,100	71,000
Health sciences.....	77,000	82,200	72,000
Physical and related sciences.....	90,000	91,000	80,300
Social sciences.....	85,000	85,000	83,000
Psychology.....	75,000	80,000	74,000
Engineering.....	90,000	92,000	70,000
State and local government.....	62,000	63,500	60,000
Sciences.....	62,000	63,200	60,000
Computer and information sciences.....	S	S	S
Mathematical sciences.....	62,000	62,000	S
Biological and agricultural sciences.....	60,000	65,000	50,000
Health sciences.....	68,000	68,000	72,200
Physical and related sciences.....	69,000	69,000	S
Social sciences.....	62,000	62,000	62,000
Psychology.....	62,000	62,500	60,000
Engineering.....	67,600	65,000	S
Other sector.....	125,000	129,000	120,000
Sciences.....	130,000	130,000	120,000
Computer and information sciences.....	S	S	S
Mathematical sciences.....	S	S	S
Biological and agricultural sciences.....	S	S	S
Health sciences.....	S	S	S
Physical and related sciences.....	S	S	S
Social sciences.....	130,000	130,000	130,000
Psychology.....	S	S	S
Engineering.....	S	S	S

KEY: S=Suppressed due to too few cases (fewer than 200 weighted cases).

NOTE: Salaries are rounded to nearest hundred.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 54. Median annual salaries of full-time employed doctoral scientists and engineers, by sector of employment, broad field of doctorate, and race/ethnicity: 2001

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Employment sector/field of doctorate	Total	White ¹	Black	Asian/Pacific Islander	Hispanic	American Indian/Alaskan Native
All sectors.....	\$77,000	\$77,000	\$67,000	\$80,000	\$69,000	\$64,000
Sciences.....	73,000	75,000	63,300	72,000	65,000	62,000
Computer and information sciences.....	96,000	96,000	82,000	98,000	103,000	S
Mathematical sciences.....	75,000	76,000	63,000	70,000	67,000	S
Biological and agricultural sciences.....	70,000	72,000	62,500	60,000	62,000	70,000
Health sciences.....	70,000	70,000	70,000	80,000	60,000	S
Physical and related sciences.....	82,600	84,500	73,000	80,000	76,000	68,000
Social sciences.....	68,000	70,000	62,800	65,000	63,000	54,000
Psychology.....	66,900	68,000	60,000	55,000	58,000	64,000
Engineering.....	90,500	93,000	81,100	90,000	82,000	S
Universities and 4-year colleges.....	64,000	65,000	60,000	58,000	57,600	60,000
Sciences.....	62,000	63,600	59,000	53,300	55,300	56,000
Computer and information sciences.....	72,000	70,000	S	74,000	S	S
Mathematical sciences.....	62,000	65,000	57,000	53,000	58,000	S
Biological and agricultural sciences.....	61,000	65,000	59,000	45,000	51,000	S
Health sciences.....	63,000	63,000	61,000	64,000	54,000	S
Physical and related sciences.....	62,000	63,000	51,900	56,000	62,000	S
Social sciences.....	62,000	63,100	59,000	58,000	56,000	54,000
Psychology.....	60,000	60,000	56,400	50,000	51,200	S
Engineering.....	80,000	80,000	70,000	78,000	71,000	S
Other educational institutions.....	52,000	52,000	53,000	56,000	52,000	S
Sciences.....	52,000	52,000	53,000	58,000	52,000	S
Computer and information sciences.....	S	S	S	S	S	S
Mathematical sciences.....	54,000	53,000	S	S	S	S
Biological and agricultural sciences.....	46,000	46,000	S	43,500	S	S
Health sciences.....	55,000	57,000	S	S	S	S
Physical and related sciences.....	48,000	47,000	S	S	S	S
Social sciences.....	50,600	50,600	S	S	S	S
Psychology.....	60,000	60,000	55,000	S	58,000	S
Engineering.....	44,100	42,000	S	S	S	S
Private-for-profit.....	95,000	98,000	85,000	90,000	90,000	111,000
Sciences.....	93,000	96,200	81,600	85,000	89,000	125,000
Computer and information sciences.....	110,000	114,000	S	107,000	S	S
Mathematical sciences.....	100,000	105,000	S	84,000	S	S
Biological and agricultural sciences.....	90,000	93,000	79,000	75,000	85,000	S
Health sciences.....	94,200	95,000	S	90,500	S	S
Physical and related sciences.....	93,900	98,000	81,600	85,000	86,000	S
Social sciences.....	100,000	101,000	85,000	90,000	70,000	S
Psychology.....	85,000	85,000	85,000	88,000	75,000	S
Engineering.....	96,000	100,000	94,000	93,000	92,000	S
Self-employed.....	75,000	75,000	70,000	80,000	90,000	S
Sciences.....	75,000	75,000	70,000	80,000	90,000	S
Computer and information sciences.....	S	S	S	S	S	S
Mathematical sciences.....	60,000	75,000	S	S	S	S
Biological and agricultural sciences.....	60,000	60,000	S	78,000	S	S
Health sciences.....	50,000	50,000	S	S	S	S
Physical and related sciences.....	80,000	80,000	S	117,000	S	S
Social sciences.....	75,000	75,000	S	S	S	S
Psychology.....	78,000	80,000	72,000	S	S	S
Engineering.....	100,000	100,000	S	S	S	S

See explanatory information and SOURCE at end of table.

Table 54. Median annual salaries of full-time employed doctoral scientists and engineers, by sector of employment, broad field of doctorate, and race/ethnicity: 2001

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Employment sector/field of doctorate	Total	White ¹	Black	Asian/Pacific Islander	Hispanic	American Indian/Alaskan Native
Private not-for-profit.....	\$75,000	\$76,000	\$75,000	\$69,000	\$70,000	S
Sciences.....	73,000	75,000	75,000	65,000	65,000	S
Computer and information sciences.....	115,000	S	S	S	S	S
Mathematical sciences.....	92,000	95,400	S	S	S	S
Biological and agricultural sciences.....	72,200	76,000	S	61,000	S	S
Health sciences.....	80,000	79,000	S	S	S	S
Physical and related sciences.....	88,500	92,000	S	69,500	S	S
Social sciences.....	79,000	80,000	80,000	71,700	S	S
Psychology.....	62,500	63,000	S	52,000	63,000	S
Engineering.....	91,500	99,000	S	80,000	S	S
Federal Government.....	83,000	84,700	78,000	80,000	86,600	S
Sciences.....	82,000	82,300	78,000	77,000	83,000	S
Computer and information sciences.....	93,000	93,000	S	S	S	S
Mathematical sciences.....	92,000	93,600	S	S	S	S
Biological and agricultural sciences.....	76,000	77,600	79,000	67,200	S	S
Health sciences.....	77,000	81,000	S	S	S	S
Physical and related sciences.....	90,000	90,000	S	88,400	94,000	S
Social sciences.....	85,000	85,000	78,000	80,000	S	S
Psychology.....	75,000	76,000	S	S	S	S
Engineering.....	90,000	92,000	S	85,000	S	S
State and local government.....	62,000	63,000	65,000	58,000	67,200	S
Sciences.....	62,000	62,000	67,000	56,000	67,000	S
Computer and information sciences.....	S	S	S	S	S	S
Mathematical sciences.....	62,000	S	S	S	S	S
Biological and agricultural sciences.....	60,000	63,000	S	50,000	S	S
Health sciences.....	68,000	68,000	S	S	S	S
Physical and related sciences.....	69,000	70,000	S	55,000	S	S
Social sciences.....	62,000	62,000	S	55,000	S	S
Psychology.....	62,000	62,000	62,500	S	S	S
Engineering.....	67,600	68,000	S	65,000	S	S
Other sector.....	125,000	130,000	S	90,000	S	S
Sciences.....	130,000	130,000	S	S	S	S
Computer and information sciences.....	S	S	S	S	S	S
Mathematical sciences.....	S	S	S	S	S	S
Biological and agricultural sciences.....	S	S	S	S	S	S
Health sciences.....	S	S	S	S	S	S
Physical and related sciences.....	S	S	S	S	S	S
Social sciences.....	130,000	130,000	S	S	S	S
Psychology.....	S	S	S	S	S	S
Engineering.....	S	S	S	S	S	S

¹ 'Other' race included with 'white'.

KEY: S=Suppressed due to too few cases (fewer than 200 weighted cases).

NOTE: The race/ethnicity data shown are for all doctoral recipients, including temporary residents. Salaries are rounded to nearest hundred.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 55. Median annual salaries of full-time employed doctoral scientists and engineers, by field of doctorate and primary or secondary work activities: 2001

Field of doctorate	Total	R&D ¹	Teaching	Management, sales, and administration	Computer applications	Professional services	Other activities
All fields.....	\$77,000	\$78,000	\$62,000	\$89,300	\$80,000	\$73,500	\$72,000
Sciences.....	73,000	74,500	60,000	85,000	78,000	72,000	68,500
Computer and information sciences.....	96,000	100,000	71,000	105,000	100,000	S	96,800
Mathematical sciences.....	75,000	77,000	60,000	100,000	81,000	100,000	72,000
Biological and agricultural sciences.....	70,000	70,000	63,000	82,000	62,000	88,000	68,000
Agricultural/food sciences.....	68,900	69,200	62,000	79,000	65,000	65,000	63,000
Biological sciences.....	70,000	70,000	63,000	84,600	61,000	92,000	70,000
Environmental life sciences.....	69,200	70,000	60,000	75,000	61,000	60,000	67,800
Health sciences.....	70,000	69,500	60,000	80,000	72,700	75,000	68,000
Physical and related sciences.....	82,600	83,200	60,000	95,600	80,000	93,000	78,000
Chemistry except biochemistry.....	82,400	83,000	56,000	94,000	75,000	84,700	75,000
Earth/atmos/ocean sciences.....	72,000	72,000	56,000	86,000	70,000	90,000	66,400
Physics and astronomy.....	88,500	88,800	63,000	103,000	88,800	108,400	87,400
Social sciences.....	68,000	67,200	60,000	82,000	70,000	74,000	67,800
Economics.....	84,000	80,000	73,800	107,500	75,000	100,000	85,000
Political and related sciences.....	65,000	60,000	56,000	88,500	70,000	90,000	65,800
Sociology.....	60,000	60,000	56,000	75,000	61,000	53,000	59,000
Other social sciences.....	60,000	60,000	55,000	70,000	65,000	64,000	59,300
Psychology.....	66,900	67,000	60,000	70,000	72,000	65,000	58,500
Engineering.....	90,500	90,000	78,000	103,000	90,000	100,000	87,000
Aerospace/aeronautical engineering.....	90,000	85,000	90,000	95,600	90,000	S	95,600
Chemical engineering.....	92,000	90,000	80,000	100,000	92,000	88,000	78,000
Civil engineering.....	81,000	80,000	74,000	92,000	80,000	83,200	79,000
Electrical/computer engineering.....	100,000	100,000	80,000	120,000	95,000	103,800	100,000
Materials/metallurgical engineering.....	90,000	87,000	78,000	100,000	85,000	92,000	79,300
Mechanical engineering.....	87,000	85,000	75,000	95,700	82,000	114,000	82,000
Other engineering.....	87,000	85,000	73,000	100,000	84,500	90,000	75,600

¹ R&D includes basic or applied research, development and design.

KEY: S=Suppressed due to too few cases (fewer than 200 weighted cases).

NOTE: Salaries are rounded to nearest hundred. If respondent reported more than one type of activity as their primary and secondary work activity, their salary appears in both categories.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 56. Median annual salaries of full-time employed doctoral scientists and engineers, by employer location and broad field of doctorate: 2001

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Employer location	Sciences	Computer and information sciences	Mathematical sciences	Biological and agricultural sciences	Health sciences	Physical and related sciences	Social and related sciences	Psychology	Engineering
All locations.....	\$73,000	\$96,000	\$75,000	\$70,000	\$70,000	\$82,600	\$68,000	\$66,900	\$90,500
New England.....	75,000	100,000	80,000	72,000	65,000	85,000	73,000	68,000	93,000
Connecticut.....	80,000	S	S	80,000	74,000	89,000	85,000	71,500	78,000
Maine.....	58,000	S	S	48,000	S	60,000	65,000	75,000	S
Massachusetts.....	77,500	100,000	80,000	72,000	65,000	85,000	75,000	69,300	95,000
New Hampshire.....	60,500	S	S	45,000	S	62,000	60,000	53,000	85,800
Rhode Island.....	64,000	S	S	60,000	S	80,000	67,800	59,400	93,000
Vermont.....	60,000	S	S	75,000	S	S	54,000	50,000	96,000
Middle Atlantic.....	79,000	100,000	82,300	75,000	74,000	85,900	70,500	72,000	94,500
New Jersey.....	88,800	103,000	100,000	88,000	85,000	92,200	72,000	75,000	100,000
New York.....	77,000	100,000	84,000	73,600	70,000	86,700	72,000	75,000	90,000
Pennsylvania.....	70,000	75,000	68,000	70,000	77,500	79,000	70,000	69,000	90,000
East North Central.....	68,500	73,000	68,000	70,000	67,000	78,000	64,000	60,000	83,000
Illinois.....	70,000	87,000	68,000	70,000	60,000	78,000	65,800	69,100	89,000
Indiana.....	65,000	S	60,000	72,000	62,100	82,000	65,000	54,000	72,000
Michigan.....	72,000	S	76,000	70,000	82,000	84,000	65,000	60,000	88,000
Ohio.....	67,500	S	68,000	72,000	63,000	75,600	60,000	60,000	80,000
Wisconsin.....	62,000	S	51,000	63,000	75,000	65,000	64,000	56,000	78,000
West North Central.....	63,000	84,000	62,000	65,000	63,300	66,000	55,000	60,000	82,400
Iowa.....	63,300	S	62,000	77,000	S	63,000	68,000	56,000	67,100
Kansas.....	53,000	S	S	53,000	S	46,000	49,000	65,000	75,000
Minnesota.....	67,000	S	78,100	67,000	65,000	84,000	55,000	61,500	90,000
Missouri.....	60,000	S	65,500	63,000	60,000	60,000	59,000	55,000	90,000
Nebraska.....	60,000	S	S	61,000	S	S	S	S	S
North Dakota.....	65,000	S	S	79,000	S	55,000	54,500	70,000	67,000
South Dakota.....	60,000	S	S	64,000	S	S	S	S	S
South Atlantic.....	75,000	87,000	79,500	74,000	76,200	81,500	76,000	69,600	91,000
Delaware.....	90,000	S	S	89,000	S	100,000	77,000	68,500	97,000
District of Columbia.....	92,000	S	90,000	79,000	96,000	97,000	99,600	80,000	95,600
Florida.....	65,000	75,000	53,000	65,000	72,000	65,000	62,000	69,000	82,000
Georgia.....	65,000	115,000	51,000	72,000	68,000	73,000	55,000	65,000	90,000
Maryland.....	80,000	87,000	96,000	76,000	80,000	89,000	76,000	65,000	94,000
North Carolina.....	72,000	S	72,000	77,000	76,000	76,200	55,000	68,000	92,000
South Carolina.....	65,000	S	70,000	68,000	70,000	65,000	58,000	62,000	83,500
Virginia.....	76,000	102,000	92,000	71,000	80,000	82,000	68,000	69,000	100,000
West Virginia.....	75,000	S	S	65,000	S	88,400	S	S	85,000

See explanatory information and SOURCE at end of table.

Table 56. Median annual salaries of full-time employed doctoral scientists and engineers, by employer location and broad field of doctorate: 2001

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Employer location	Sciences	Computer and information sciences	Mathematical sciences	Biological and agricultural sciences	Health sciences	Physical and related sciences	Social and related sciences	Psychology	Engineering
East South Central.....	\$64,800	\$66,000	\$58,000	\$64,000	\$62,000	\$73,000	\$58,000	\$65,000	\$80,000
Alabama.....	70,000	S	65,000	70,000	78,000	82,400	50,000	62,000	79,000
Kentucky.....	60,000	S	57,000	62,500	50,000	66,000	56,000	69,900	80,000
Mississippi.....	65,000	S	S	65,000	S	75,000	70,000	60,000	81,000
Tennessee.....	61,200	S	52,000	55,000	67,000	72,000	60,000	65,000	79,000
West South Central.....	70,000	100,400	61,000	65,000	64,000	80,000	63,000	65,000	90,000
Arkansas.....	60,000	S	S	58,000	S	72,000	57,100	60,000	S
Louisiana.....	63,100	S	52,000	68,000	53,200	72,000	70,000	60,000	82,500
Oklahoma.....	62,000	S	S	60,000	S	72,000	61,500	65,000	74,000
Texas.....	73,000	105,000	70,000	68,000	71,500	82,000	63,000	70,000	90,000
Mountain.....	65,000	79,000	66,100	62,000	61,000	83,000	60,000	57,700	91,000
Arizona.....	62,500	S	S	58,000	45,000	65,000	68,000	65,000	89,000
Colorado.....	67,000	79,000	75,500	63,000	65,000	82,000	60,000	57,600	91,000
Idaho.....	60,000	S	S	66,000	S	70,000	55,000	44,000	86,600
Montana.....	54,000	S	S	54,000	S	65,000	S	54,000	S
New Mexico.....	82,300	S	88,000	68,600	S	94,600	51,000	51,000	97,000
Nevada.....	78,000	S	S	66,000	S	82,000	S	80,000	90,000
Utah.....	60,000	S	S	60,000	S	68,600	60,000	53,000	90,000
Wyoming.....	54,000	S	S	61,000	S	S	S	S	S
Pacific.....	79,000	108,000	80,000	73,000	75,000	90,000	72,000	70,000	100,000
Alaska.....	67,000	S	S	65,000	S	70,000	S	S	S
California.....	84,000	110,000	80,000	78,000	78,000	95,000	76,000	72,000	105,000
Hawaii.....	65,000	S	S	65,000	S	70,000	64,000	66,000	75,000
Oregon.....	65,000	S	77,000	65,000	65,000	75,900	60,000	56,000	80,000
Washington.....	65,000	S	90,000	60,500	70,000	70,000	63,600	62,500	88,000
Puerto Rico.....	52,000	S	S	48,000	S	55,000	S	48,000	S
Other U.S. territories and other areas.....	46,600	S	S	S	S	S	S	S	S

KEY: S=Suppressed due to too few cases (fewer than 200 weighted cases).

NOTES: Since the survey sample design does not include geography, the reliability of estimates in some states may be poor due to small sample size.

Salaries are rounded to nearest hundred.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 57. Median annual salaries of full-time employed doctoral scientists and engineers in universities and 4-year colleges, by broad field of doctorate, sex, and faculty rank: 2001

Field of doctorate/sex	Total	Full professor	Associate professor	Assistant professor	Instructor/lecturer	Adjunct faculty	Other faculty	Rank not applicable
All fields.....	\$64,000	\$85,000	\$62,500	\$51,000	\$42,800	\$50,000	\$30,000	\$45,000
Male	69,000	87,000	64,000	53,300	44,000	51,500	22,000	48,000
Female	54,000	79,000	60,000	49,200	42,000	41,000	S	40,000
Sciences	62,000	84,000	60,000	50,000	42,000	50,000	30,000	43,000
Male	65,300	85,000	62,000	51,000	43,000	51,000	S	45,000
Female	54,000	78,500	59,000	48,700	41,800	41,000	S	40,000
Computer and information sciences	72,000	88,000	72,000	65,000	S	S	S	S
Male	72,000	88,000	72,000	65,000	S	S	S	S
Female	70,000	S	65,000	63,000	S	S	S	S
Mathematical sciences	62,000	80,000	55,000	43,400	44,000	S	S	60,000
Male	65,000	80,000	55,000	43,400	45,000	S	S	60,000
Female	51,000	77,500	55,000	42,000	S	S	S	S
Biological and agricultural sciences	61,000	89,000	67,400	55,000	41,000	45,000	S	37,000
Male	65,000	90,000	68,000	56,000	43,000	47,500	S	38,500
Female	51,000	85,000	65,700	53,900	40,000	40,000	S	35,200
Health sciences	63,000	84,900	67,000	53,000	45,000	S	S	50,000
Male	69,500	100,000	68,000	60,000	S	S	S	51,000
Female	60,000	74,500	65,000	52,000	45,000	S	S	50,000
Physical and related sciences	62,000	84,000	56,000	48,000	41,000	42,000	S	52,000
Male	65,000	85,000	57,700	48,000	42,600	49,000	S	55,000
Female	50,000	75,000	52,000	48,000	S	S	S	41,000
Social sciences	62,000	80,000	58,000	47,000	42,000	53,000	S	58,000
Male	67,000	82,000	59,300	48,000	42,000	55,000	S	66,000
Female	55,000	78,000	55,000	45,300	41,800	41,000	S	52,000
Psychology	60,000	80,000	58,400	46,500	42,000	62,200	S	50,000
Male	65,000	80,000	59,800	48,000	44,000	78,000	S	54,000
Female	54,000	75,000	57,000	46,000	42,000	50,000	S	48,000
Engineering	80,000	96,300	72,000	62,200	53,000	52,000	S	80,000
Male	80,800	96,500	72,000	64,000	58,000	60,000	S	85,200
Female.....	64,000	91,300	70,000	60,000	S	S	S	55,000

KEY: S=Suppressed due to too few cases (fewer than 200 weighted cases).

NOTE: Salaries are rounded to nearest hundred.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

**Table 58. Median annual salaries of full-time employed doctoral scientists and engineers in universities and 4-year colleges,
by broad field of doctorate, sex, faculty rank, and years since doctorate: 2001**

Field of doctorate/sex	Total		Full professor		Associate professor		Assistant professor		Instructor/ lecturer		All other faculty ¹		Rank not applicable	
	Less than 10 years	10 or more years	Less than 10 years	10 or more years	Less than 10 years	10 or more years								
All fields.....	\$46,500	\$75,000	\$55,000	\$85,000	\$57,000	\$64,600	\$50,000	\$58,000	\$42,000	\$50,000	\$45,000	\$56,000	\$37,000	\$75,000
Male	48,000	78,200	55,000	87,600	60,000	65,000	52,000	60,000	42,000	53,000	49,000	56,000	39,000	80,000
Female	45,000	66,000	55,000	80,000	52,000	62,000	48,000	55,000	41,800	45,000	36,000	56,000	36,000	61,000
Sciences	45,000	73,200	52,000	84,000	54,000	63,000	49,000	56,000	41,000	45,000	43,000	56,000	36,900	70,000
Male	45,500	75,600	48,500	85,000	55,000	64,000	50,000	58,000	41,000	50,000	49,000	55,000	38,000	75,000
Female	45,000	65,200	55,000	79,200	52,000	61,000	47,900	55,000	40,000	45,000	36,000	56,000	36,000	61,000
Computer and information sciences	68,000	79,000	S	90,000	71,000	75,000	65,000	S	S	S	S	S	S	S
Male	68,500	79,000	S	88,000	70,000	75,000	67,000	S	S	S	S	S	S	S
Female	64,000	76,000	S	S	S	S	60,000	S	S	S	S	S	S	S
Mathematical sciences	45,000	71,500	S	80,000	48,000	57,000	43,000	45,000	42,000	S	S	S	45,300	78,000
Male	45,000	72,000	S	80,000	47,300	57,000	43,000	S	44,000	S	S	S	45,300	78,000
Female	45,000	60,000	S	78,100	51,500	56,000	42,200	S	S	S	S	S	S	S
Biological and agricultural sciences	40,000	75,000	31,000	90,000	56,000	70,000	53,000	60,000	40,000	43,000	45,000	47,500	35,000	56,000
Male	42,000	78,000	31,000	90,000	56,000	70,000	54,000	60,000	43,000	43,000	45,000	47,500	35,000	61,000
Female	38,500	70,000	S	86,000	51,000	68,000	50,000	60,000	40,000	38,000	S	S	34,000	51,000
Health sciences	52,000	74,000	S	85,000	59,000	70,000	53,000	61,000	50,000	S	S	S	45,000	69,000
Male	54,000	81,000	S	100,000	56,000	70,000	60,000	S	S	S	S	S	40,000	S
Female	52,000	70,000	S	80,000	59,000	70,000	51,100	61,000	S	S	S	S	45,000	63,000
Physical and related sciences	45,000	75,000	60,000	84,300	54,000	56,200	47,000	50,000	32,000	50,000	33,000	51,000	40,000	85,000
Male	45,000	78,000	S	85,000	58,000	57,700	47,300	50,000	30,700	50,000	S	51,000	40,000	85,900
Female	45,000	59,000	S	76,500	48,000	53,700	46,000	51,400	S	S	S	S	37,000	61,800
Social sciences	48,000	70,000	63,000	80,000	53,200	60,000	47,000	48,000	41,800	48,000	42,000	55,000	46,000	70,000
Male	50,000	74,800	S	82,000	54,000	60,000	48,000	50,000	42,000	S	S	55,000	49,000	75,000
Female	46,000	63,000	84,000	78,000	50,000	58,600	45,500	45,000	S	S	35,000	S	45,600	63,000
Psychology	45,000	70,000	S	80,000	50,000	60,000	45,000	55,000	40,000	S	38,000	78,000	40,600	68,200
Male	45,000	74,000	S	80,000	50,000	60,000	45,000	67,000	40,000	S	S	96,000	43,500	68,200
Female	45,000	65,000	S	75,000	50,400	58,500	45,000	49,000	36,000	S	38,000	62,200	40,600	65,000
Engineering	63,000	90,000	S	96,300	72,000	73,000	62,000	72,500	50,000	S	S	79,500	57,000	108,000
Male	65,000	90,700	S	96,500	72,000	73,000	62,200	75,000	S	S	S	79,500	60,000	108,000
Female.....	56,000	78,000	S	91,300	64,000	72,000	60,000	S	S	S	S	S	50,000	S

¹ 'All other faculty' includes adjunct or other faculty.

KEY: S=Suppressed due to too few cases (fewer than 200 weighted cases).

NOTE: Salaries are rounded to nearest hundred.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 59. Median annual salaries of full-time employed doctoral scientists and engineers in universities and 4-year colleges, by broad field of doctorate, race/ethnicity, and faculty rank: 2001

Page 1 of 2

Field of doctorate and race/ethnicity	Total	Full professor	Associate professor	Assistant professor	Instructor/lecturer	All other faculty ¹	Rank not applicable
All fields.....	\$64,000	\$85,000	\$62,500	\$51,000	\$42,800	\$50,000	\$45,000
White ²	65,000	85,100	62,900	50,000	42,800	50,000	48,000
Black.....	60,000	80,000	66,700	50,000	46,000	S	48,500
Asian/Pacific Islander.....	58,000	87,000	62,000	57,000	42,000	50,000	37,000
Hispanic.....	57,600	76,000	61,000	50,500	44,000	S	41,000
American Indian/Alaskan Native.....	60,000	70,000	54,000	S	S	S	S
Sciences	62,000	84,000	60,000	50,000	42,000	49,000	43,000
White ²	63,600	84,000	60,500	50,000	42,000	47,500	46,000
Black.....	59,000	78,000	66,000	49,000	46,000	S	48,500
Asian/Pacific Islander.....	53,300	82,000	60,000	55,000	40,000	49,000	36,500
Hispanic.....	55,300	75,000	58,000	50,000	44,000	S	40,000
American Indian/Alaskan Native.....	56,000	64,000	54,000	S	S	S	S
Computer and information sciences	72,000	88,000	72,000	65,000	S	S	S
White ²	70,000	90,000	73,000	64,000	S	S	S
Black.....	S	S	S	S	S	S	S
Asian/Pacific Islander.....	74,000	S	72,000	71,000	S	S	S
Hispanic.....	S	S	S	S	S	S	S
American Indian/Alaskan Native.....	S	S	S	S	S	S	S
Mathematical sciences	62,000	80,000	55,000	43,400	44,000	S	60,000
White ²	65,000	81,000	56,300	42,000	44,000	S	60,000
Black.....	57,000	S	S	S	S	S	S
Asian/Pacific Islander.....	53,000	73,000	48,000	44,800	S	S	S
Hispanic.....	58,000	70,000	S	S	S	S	S
American Indian/Alaskan Native.....	S	S	S	S	S	S	S
Biological and agricultural sciences	61,000	89,000	67,400	55,000	41,000	45,000	37,000
White ²	65,000	90,000	67,000	54,100	41,000	42,000	38,000
Black.....	59,000	80,000	74,200	50,000	S	S	36,000
Asian/Pacific Islander.....	45,000	86,000	70,000	60,000	40,000	S	35,000
Hispanic.....	51,000	85,000	67,000	51,000	S	S	36,500
American Indian/Alaskan Native.....	S	S	S	S	S	S	S
Health sciences	63,000	84,900	67,000	53,000	45,000	S	50,000
White ²	63,000	85,000	65,000	53,000	45,000	S	53,000
Black.....	61,000	S	S	56,000	S	S	S
Asian/Pacific Islander.....	64,000	100,000	S	60,000	S	S	S
Hispanic.....	54,000	S	S	S	S	S	S
American Indian/Alaskan Native.....	S	S	S	S	S	S	S
Physical and related sciences	62,000	84,000	56,000	48,000	41,000	42,000	52,000
White ²	63,000	84,000	56,000	48,000	41,000	42,000	58,000
Black.....	51,900	S	S	S	S	S	S
Asian/Pacific Islander.....	56,000	90,000	55,000	53,300	S	S	40,000
Hispanic.....	62,000	80,000	57,700	S	S	S	S
American Indian/Alaskan Native.....	S	S	S	S	S	S	S
Social sciences	62,000	80,000	58,000	47,000	42,000	51,000	58,000
White ²	63,100	81,000	57,800	46,000	42,000	53,000	60,000
Black.....	59,000	78,000	65,000	47,500	S	S	52,000
Asian/Pacific Islander.....	58,000	76,000	58,000	50,000	S	S	46,000
Hispanic.....	56,000	80,000	57,000	45,000	S	S	S
American Indian/Alaskan Native.....	54,000	S	S	S	S	S	S

See explanatory information and SOURCE at end of table.

Table 59. Median annual salaries of full-time employed doctoral scientists and engineers in universities and 4-year colleges, by broad field of doctorate, race/ethnicity, and academic rank: 2001

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Field of doctorate and race/ethnicity	Total	Full professor	Associate professor	Assistant professor	Instructor/lecturer	All other faculty ¹	Rank not applicable
Psychology	60,000	80,000	58,400	46,500	42,000	62,200	50,000
White ²	60,000	80,000	58,300	46,500	38,000	65,000	50,000
Black.....	56,400	S	60,000	46,000	S	S	60,000
Asian/Pacific Islander.....	50,000	S	S	46,000	S	S	48,000
Hispanic.....	51,200	60,000	56,000	50,000	S	S	S
American Indian/Alaskan Native.....	S	S	S	S	S	S	S
Engineering	80,000	96,300	72,000	62,200	53,000	52,000	80,000
White ²	80,000	97,000	73,000	62,000	53,000	52,000	90,000
Black.....	70,000	95,600	67,000	S	S	S	S
Asian/Pacific Islander.....	78,000	97,000	70,000	64,000	S	S	45,000
Hispanic.....	71,000	82,000	S	S	S	S	S
American Indian/Alaskan Native.....	S	S	S	S	S	S	S

¹ 'All other faculty' includes adjunct or other faculty.

² 'Other' race included with 'white'.

KEY: S=Suppressed due to too few cases (fewer than 200 weighted cases).

NOTE: The race/ethnicity data shown are for all doctoral recipients, including temporary residents. Salaries are rounded to nearest hundred.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 60. Median annual salaries of full-time employed doctoral scientists and engineers in universities and 4-year colleges, by broad field of doctorate, sex, and tenure status: 2001

Field of doctorate/sex	Total	Tenured	Not tenured		Tenure not applicable
			On tenure track	Not on tenure track	
All fields.....	\$64,000	\$75,000	\$53,000	\$50,000	\$50,000
Male	69,000	78,000	55,000	50,400	55,000
Female	54,000	65,200	50,000	46,000	45,000
Sciences	62,000	73,000	51,000	48,000	50,000
Male	65,300	75,000	52,000	50,000	53,000
Female	54,000	65,000	50,000	46,000	45,000
Computer and information sciences	72,000	76,000	67,000	73,000	68,500
Male	72,000	76,000	68,000	S	68,500
Female	70,000	76,400	65,000	S	S
Mathematical sciences	62,000	70,000	45,000	42,000	49,000
Male	65,000	71,000	45,000	42,000	50,000
Female	51,000	64,800	44,000	41,400	S
Biological and agricultural sciences	61,000	79,000	58,000	45,000	40,100
Male	65,000	80,000	59,000	50,000	44,300
Female	51,000	72,000	56,000	42,400	37,000
Health sciences	63,000	71,000	53,500	54,000	64,300
Male	69,500	78,000	60,000	50,000	70,000
Female	60,000	65,000	52,000	55,000	55,000
Physical and related sciences	62,000	73,000	49,700	50,000	55,000
Male	65,000	75,600	50,000	50,000	62,000
Female	50,000	58,300	48,000	48,000	40,000
Social sciences	62,000	70,000	47,500	48,000	57,000
Male	67,000	74,000	50,000	48,000	63,000
Female	55,000	62,000	46,000	48,000	48,000
Psychology	60,000	70,000	46,000	50,000	54,000
Male	65,000	72,000	48,000	53,000	60,000
Female	54,000	66,000	45,000	48,300	49,000
Engineering	80,000	89,300	65,000	67,000	75,000
Male	80,800	90,000	65,800	70,000	75,500
Female.....	64,000	72,000	61,900	43,000	52,000

KEY: S=Suppressed due to too few cases (fewer than 200 weighted cases).

NOTE: Salaries are rounded to nearest hundred.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 61. Median annual salaries of full-time employed doctoral scientists and engineers in universities and 4-year colleges, by broad field of doctorate, sex, tenure status, and years since doctorate: 2001

Field of doctorate/sex	Total		Tenured		Not tenured				Tenure not applicable	
					On tenure track		Not on tenure track			
	Less than 10 years	10 or more years	Less than 10 years	10 or more years	Less than 10 years	10 or more years	Less than 10 years	10 or more years	Less than 10 years	10 or more years
All fields.....	\$46,500	\$75,000	\$56,000	\$78,000	\$51,000	\$64,000	\$42,000	\$70,000	\$40,000	\$73,000
Male	48,000	78,200	60,000	80,000	52,500	65,000	42,000	73,000	40,000	78,000
Female	45,000	66,000	52,000	69,000	48,500	61,900	42,000	60,000	37,000	61,900
Sciences	45,000	73,200	54,000	75,000	50,000	62,000	41,000	69,000	39,000	70,000
Male	45,500	75,600	55,000	77,500	50,000	63,000	40,500	72,000	40,000	76,000
Female	45,000	65,200	52,000	68,000	48,000	61,000	42,000	60,000	37,000	61,000
Computer and information sciences ..	68,000	79,000	70,000	80,000	65,000	S	S	S	65,000	S
Male	68,500	79,000	70,000	79,000	65,000	S	S	S	68,500	S
Female	64,000	76,000	S	80,000	68,000	S	S	S	S	S
Mathematical sciences	45,000	71,500	51,500	72,000	44,000	S	41,500	45,000	44,000	70,000
Male	45,000	72,000	49,400	72,000	44,000	S	41,500	S	43,000	71,000
Female	45,000	60,000	S	65,000	44,000	S	S	S	S	S
Biological and agricultural sciences ..	40,000	75,000	55,000	80,000	54,000	66,000	38,000	70,000	36,000	65,000
Male	42,000	78,000	59,700	81,000	54,000	65,000	39,000	72,000	37,000	70,000
Female	38,500	70,000	49,000	73,000	52,500	70,000	38,000	58,000	35,000	57,000
Health sciences	52,000	74,000	54,000	76,000	53,000	72,000	50,000	66,000	53,000	72,000
Male	54,000	81,000	56,000	81,000	60,000	S	45,000	S	56,000	92,000
Female	52,000	70,000	54,000	72,000	51,000	70,000	54,000	60,000	50,000	70,000
Physical and related sciences	45,000	75,000	52,000	75,000	48,000	53,000	40,000	71,000	40,000	82,000
Male	45,000	78,000	55,000	78,000	48,000	53,000	41,000	73,000	40,000	84,000
Female	45,000	59,000	46,000	60,000	47,800	55,000	36,000	60,000	37,000	61,000
Social sciences	48,000	70,000	53,500	72,000	47,000	52,000	45,000	55,000	47,000	66,500
Male	50,000	74,800	54,000	75,000	48,000	53,000	46,000	50,000	54,500	73,000
Female	46,000	63,000	50,000	65,000	45,500	48,700	42,000	62,500	44,000	60,000
Psychology	45,000	70,000	50,400	72,000	45,000	52,000	43,300	72,000	42,000	70,000
Male	45,000	74,000	50,000	73,000	45,000	63,500	44,000	76,000	44,700	78,000
Female	45,000	65,000	55,000	68,000	45,000	47,000	43,000	68,000	41,000	65,000
Engineering	63,000	90,000	72,000	90,000	64,000	72,000	60,000	82,000	55,000	100,000
Male	65,000	90,700	72,000	92,000	64,000	72,000	60,000	82,000	58,000	100,000
Female	56,000	78,000	S	78,000	61,000	S	45,000	S	47,000	S

KEY: S=Suppressed due to too few cases (fewer than 200 weighted cases).

NOTE: Salaries are rounded to nearest hundred.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 62. Median annual salaries of full-time employed doctoral scientists and engineers in universities and 4-year colleges, by broad field of doctorate, race/ethnicity, and tenure status: 2001

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Field of doctorate and race/ethnicity	Total	Tenured	Not tenured		Tenure not applicable
			On tenure track	Not on tenure track	
All fields.....	\$64,000	\$75,000	\$53,000	\$50,000	\$50,000
White'.....	65,000	75,000	52,000	50,000	53,000
Black.....	60,000	71,000	51,300	52,000	50,000
Asian/Pacific Islander.....	58,000	75,000	60,000	45,000	40,000
Hispanic.....	57,600	69,700	51,000	47,500	45,000
American Indian/Alaskan Native.....	60,000	60,000	S	S	S
Sciences	62,000	73,000	51,000	48,000	50,000
White'.....	63,600	74,000	50,000	48,600	52,000
Black.....	59,000	71,000	51,000	52,000	50,000
Asian/Pacific Islander.....	53,300	71,000	57,000	42,300	38,000
Hispanic.....	55,300	67,000	51,000	45,000	43,000
American Indian/Alaskan Native.....	56,000	60,000	S	S	S
Computer and information sciences	72,000	76,000	67,000	73,000	68,500
White'.....	70,000	75,000	64,000	S	68,500
Black.....	S	S	S	S	S
Asian/Pacific Islander.....	74,000	75,000	71,000	S	S
Hispanic.....	S	S	S	S	S
American Indian/Alaskan Native.....	S	S	S	S	S
Mathematical sciences	62,000	70,000	45,000	42,000	49,000
White'.....	65,000	72,000	45,000	42,000	50,000
Black.....	57,000	S	S	S	S
Asian/Pacific Islander.....	53,000	63,000	43,100	S	42,000
Hispanic.....	58,000	61,500	S	S	S
American Indian/Alaskan Native.....	S	S	S	S	S
Biological and agricultural sciences	61,000	79,000	58,000	45,000	40,100
White'.....	65,000	80,000	56,000	46,000	45,000
Black.....	59,000	80,000	57,000	39,000	48,500
Asian/Pacific Islander.....	45,000	76,800	61,200	40,000	36,000
Hispanic.....	51,000	67,000	58,000	45,000	38,000
American Indian/Alaskan Native.....	S	S	S	S	S
Health sciences	63,000	71,000	53,500	54,000	64,300
White'.....	63,000	70,000	53,000	55,000	64,500
Black.....	61,000	S	56,000	S	S
Asian/Pacific Islander.....	64,000	S	65,000	53,000	S
Hispanic.....	54,000	S	S	S	S
American Indian/Alaskan Native.....	S	S	S	S	S
Physical and related sciences	62,000	73,000	49,700	50,000	55,000
White'.....	63,000	73,400	49,000	51,600	60,000
Black.....	51,900	62,000	45,000	S	S
Asian/Pacific Islander.....	56,000	77,500	51,000	40,000	40,000
Hispanic.....	62,000	72,000	S	S	S
American Indian/Alaskan Native.....	S	S	S	S	S
Social sciences	62,000	70,000	47,500	48,000	57,000
White'.....	63,100	70,000	47,000	47,300	58,000
Black.....	59,000	74,000	49,000	45,000	44,000
Asian/Pacific Islander.....	58,000	67,000	50,000	50,000	50,000
Hispanic.....	56,000	67,000	45,000	S	S
American Indian/Alaskan Native.....	54,000	56,000	S	S	S

See explanatory information and SOURCE at end of table.

Table 62. Median annual salaries of full-time employed doctoral scientists and engineers in universities and 4-year colleges, by broad field of doctorate, race/ethnicity, and tenure status: 2001

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Field of doctorate and race/ethnicity	Total	Tenured	Not tenured		Tenure not applicable
			On tenure track	Not on tenure track	
Psychology	\$60,000	\$70,000	\$46,000	\$50,000	\$54,000
White ¹	60,000	72,000	46,000	50,000	54,000
Black.....	56,400	60,000	S	53,000	60,000
Asian/Pacific Islander.....	50,000	56,700	48,500	S	48,000
Hispanic.....	51,200	62,000	S	50,000	50,000
American Indian/Alaskan Native.....	S	S	S	S	S
Engineering	80,000	89,300	65,000	67,000	75,000
White ¹	80,000	90,000	65,000	67,000	80,000
Black.....	70,000	78,000	S	S	S
Asian/Pacific Islander.....	78,000	89,300	66,000	65,000	56,000
Hispanic.....	71,000	76,000	S	S	S
American Indian/Alaskan Native.....	S	S	S	S	S

¹ 'Other' race included with 'white'.

KEY: S=Suppressed due to too few cases (fewer than 200 weighted cases).

NOTE: The race/ethnicity data shown are for all doctoral recipients, including temporary residents. Salaries are rounded to nearest hundred.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

**Table 63. Median annual salaries of full-time employed doctoral scientists and engineers,
by occupation, race/ethnicity, and sex: 2001**

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Occupation	Total			White ¹			Black		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
All occupations.....	\$77,000	\$81,000	\$62,000	\$77,000	\$82,000	\$62,000	\$67,000	\$70,000	\$60,000
Scientists.....	70,000	75,000	60,000	70,000	75,000	60,000	61,000	64,900	54,000
Computer and information scientists.....	89,000	90,000	80,000	90,000	90,000	79,000	74,400	79,000	S
Computer/information scientists.....	90,600	92,000	87,000	93,800	95,000	87,500	79,000	79,000	S
Postsecondary teachers, computer sciences.....	71,000	72,000	63,000	70,000	72,000	63,000	S	S	S
Mathematical scientists.....	68,000	70,000	61,000	68,000	70,000	60,000	63,000	63,000	S
Mathematical scientists.....	87,100	90,000	80,000	90,000	92,000	80,000	80,500	S	S
Postsecondary teachers, math sciences.....	59,000	60,000	51,000	60,000	61,700	51,000	55,000	S	S
Life and related scientists.....	67,000	70,000	58,000	69,400	72,000	60,000	60,000	62,000	55,000
Agricultural and food scientists.....	68,600	70,000	64,000	70,000	71,000	64,000	48,500	48,500	S
Biological scientists, excluding medical scientists.....	65,000	68,000	58,000	68,000	70,000	60,000	55,000	60,000	S
Medical scientists.....	72,000	80,000	57,000	75,000	84,000	60,000	74,500	75,500	49,000
Forestry and conservation scientists.....	65,000	68,000	S	67,000	68,000	S	S	S	S
Postsecondary teachers, biological sciences.....	60,000	61,000	53,900	60,000	61,000	52,000	53,100	57,000	S
Postsecondary teachers, other life and related sciences.....	77,000	78,000	75,000	77,000	78,000	75,000	65,000	S	S
Physical and related scientists.....	77,000	80,000	62,600	78,300	80,000	60,000	67,300	68,100	S
Chemists, except biochemistry.....	83,000	85,000	74,000	86,000	88,000	76,200	75,000	75,000	S
Earth scientists.....	80,000	81,600	67,500	85,000	85,000	72,000	S	S	S
Physics and astronomers.....	90,000	91,000	72,000	90,000	92,000	72,000	S	S	S
Other physical scientists.....	80,000	80,000	S	80,000	80,000	S	S	S	S
Postsecondary teachers, chemistry.....	55,000	58,000	49,900	55,000	58,500	49,100	49,600	55,000	S
Postsecondary teachers, physics.....	63,000	64,000	53,300	63,000	63,000	53,300	S	S	S
Postsecondary teachers, other physical and related sciences.....	60,000	63,000	53,300	60,000	62,000	55,000	S	S	S
Social scientists.....	65,000	68,000	56,000	65,000	69,000	56,200	60,000	65,000	54,000
Economists.....	95,000	97,100	85,000	100,000	100,000	86,600	S	S	S
Political scientists.....	93,000	98,600	74,000	98,600	100,000	74,000	S	S	S
Sociologists and anthropologists.....	61,000	60,000	62,500	61,000	61,000	62,500	S	S	S
Other social scientists.....	60,000	65,000	55,000	60,000	65,000	55,000	S	S	S
Postsecondary teachers, economics	70,000	72,000	61,000	72,000	74,800	63,000	56,000	S	S
Postsecondary teachers, political science	56,000	56,000	55,000	56,000	56,000	56,200	72,000	75,000	S
Postsecondary teachers, sociology	56,000	58,000	50,500	56,000	59,000	51,000	55,000	55,000	S
Postsecondary teachers, other social sciences	55,000	60,000	50,000	55,000	61,000	50,000	57,600	S	S
Psychologists.....	63,000	70,000	58,000	64,000	70,000	59,000	59,000	62,000	52,000
Psychologists.....	67,000	72,000	60,000	68,000	73,000	60,000	60,000	62,000	60,000
Postsecondary teachers, psychology.....	56,000	62,800	50,400	56,000	63,000	51,000	52,000	60,000	45,900
Engineers.....	88,000	89,000	80,000	90,000	90,000	80,000	80,000	80,000	S
Aerospace/aeronautical engineers.....	91,000	91,000	82,000	92,000	92,000	S	S	S	S
Chemical engineers.....	90,000	90,000	85,000	92,000	94,000	88,000	S	S	S
Civil and architectural engineers.....	75,000	75,000	S	75,000	76,000	S	S	S	S
Electrical and related engineers.....	100,000	100,000	83,600	100,000	102,000	82,000	94,000	S	S
Materials/metallurgical engineers.....	90,000	90,000	90,000	91,000	91,000	S	S	S	S
Mechanical engineers.....	85,000	85,900	70,000	87,500	87,500	S	S	S	S
Other engineers.....	85,000	86,500	79,800	87,000	89,000	80,000	S	S	S
Postsecondary teachers, engineering.....	79,000	80,000	67,400	80,000	80,000	65,000	72,000	75,000	S
Non-S&E occupations.....	90,200	100,000	69,000	92,000	100,000	70,000	70,000	79,000	62,800
Managers, administrators, etc.....	110,000	115,000	90,000	110,000	115,000	91,000	90,000	102,000	73,000
Health and related occupations.....	83,000	100,000	64,000	86,000	104,000	65,000	64,000	70,000	62,000
Teachers, except S&E postsecondary teachers.....	59,000	65,000	55,000	60,000	65,000	56,000	53,000	53,000	53,000
Technicians/technologists.....	75,200	78,400	60,000	75,000	77,000	50,000	S	S	S
Sales and marketing occupations.....	80,000	80,000	70,000	76,100	80,000	70,000	S	S	S
Other non-S&E occupations.....	59,600	60,000	57,500	59,000	60,000	57,000	55,000	55,000	S

See explanatory information and SOURCE at end of table.

**Table 63. Median annual salaries of full-time employed doctoral scientists and engineers,
by occupation, race/ethnicity, and sex: 2001**

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Occupation	Asian/Pacific Islander			Hispanic			American Indian/ Alaskan Native		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
All occupations.....	\$80,000	\$82,000	\$65,000	\$69,000	\$75,000	\$55,400	\$64,000	\$64,000	\$64,000
Scientists.....	71,500	75,000	62,500	64,000	70,000	54,000	60,000	60,000	65,000
Computer and information scientists.....	88,000	89,000	85,000	89,000	90,000	S	S	S	S
Computer/information scientists.....	90,000	90,000	86,500	99,000	99,000	S	S	S	S
Postsecondary teachers, computer sciences.....	72,000	72,000	S	S	S	S	S	S	S
Mathematical scientists.....	70,000	70,500	65,000	61,500	62,000	S	S	S	S
Mathematical scientists.....	84,000	85,000	72,000	S	S	S	S	S	S
Postsecondary teachers, math sciences.....	49,000	50,000	49,000	56,000	56,000	S	S	S	S
Life and related scientists.....	60,000	62,000	56,000	57,000	65,000	50,000	62,400	60,800	S
Agricultural and food scientists.....	60,000	60,000	56,000	68,500	70,000	S	S	S	S
Biological scientists, excluding medical scientists.....	60,000	60,000	60,000	43,000	50,000	40,500	S	S	S
Medical scientists.....	60,000	65,000	50,000	67,000	80,000	50,000	S	S	S
Forestry and conservation scientists.....	S	S	S	S	S	S	S	S	S
Postsecondary teachers, biological sciences.....	60,000	61,000	56,000	54,900	57,000	S	S	S	S
Postsecondary teachers, other life and related sciences.....	80,000	80,000	S	64,900	S	S	S	S	S
Physical and related scientists.....	74,000	75,400	69,000	73,700	75,000	58,000	55,400	55,400	S
Chemists, except biochemistry.....	75,000	78,800	70,000	80,000	89,000	S	S	S	S
Earth scientists.....	70,000	74,000	S	72,000	77,000	S	S	S	S
Physics and astronomers.....	80,000	83,000	71,000	76,800	87,000	S	S	S	S
Other physical scientists.....	S	S	S	S	S	S	S	S	S
Postsecondary teachers, chemistry.....	56,000	56,000	S	56,400	67,000	S	S	S	S
Postsecondary teachers, physics.....	70,000	72,000	S	57,700	57,700	S	S	S	S
Postsecondary teachers, other physical and related sciences.....	60,000	62,000	S	S	S	S	S	S	S
Social scientists.....	62,400	67,000	54,000	63,000	65,000	54,000	54,000	54,000	S
Economists.....	80,000	80,000	80,000	80,000	80,000	S	S	S	S
Political scientists.....	S	S	S	S	S	S	S	S	S
Sociologists and anthropologists.....	S	S	S	S	S	S	S	S	S
Other social scientists.....	S	S	S	S	S	S	S	S	S
Postsecondary teachers, economics	68,000	69,000	S	S	S	S	S	S	S
Postsecondary teachers, political science	52,000	52,000	S	54,000	S	S	S	S	S
Postsecondary teachers, sociology	52,000	56,600	S	55,000	S	S	S	S	S
Postsecondary teachers, other social sciences	50,000	50,000	S	60,000	63,000	S	S	S	S
Psychologists.....	52,000	53,000	52,000	56,800	65,000	56,000	65,000	S	S
Psychologists.....	55,000	56,000	52,400	58,000	74,100	57,000	64,000	S	S
Postsecondary teachers, psychology.....	50,000	52,500	49,000	55,000	60,000	55,000	S	S	S
Engineers.....	87,000	88,000	77,500	78,000	76,000	S	S	S	S
Aerospace/aeronautical engineers.....	89,500	89,500	S	S	S	S	S	S	S
Chemical engineers.....	87,600	89,000	70,000	S	S	S	S	S	S
Civil and architectural engineers.....	77,000	77,000	S	S	S	S	S	S	S
Electrical and related engineers.....	95,000	95,000	90,000	100,000	100,000	S	S	S	S
Materials/metallurgical engineers.....	85,000	84,500	S	S	S	S	S	S	S
Mechanical engineers.....	82,400	83,000	S	S	S	S	S	S	S
Other engineers.....	81,300	83,000	72,000	80,000	76,000	S	S	S	S
Postsecondary teachers, engineering.....	78,900	79,000	S	71,000	72,000	S	S	S	S
Non-S&E occupations.....	95,000	100,000	70,000	77,000	85,000	65,000	65,000	75,900	S
Managers, administrators, etc.....	115,000	120,000	96,000	100,000	100,000	82,000	S	S	S
Health and related occupations.....	75,000	80,000	54,000	75,000	S	S	S	S	S
Teachers, except S&E postsecondary teachers.....	54,000	65,000	52,000	51,000	52,000	51,000	S	S	S
Technicians/technologists.....	77,000	80,000	62,000	S	S	S	S	S	S
Sales and marketing occupations.....	80,000	80,000	S	S	S	S	S	S	S
Other non-S&E occupations.....	73,000	73,000	67,000	60,000	S	S	S	S	S

¹ 'Other' race included with 'white'.

KEY: S=Suppressed due to too few cases (fewer than 200 weighted cases). S&E=science and engineering.

NOTE: The race/ethnicity data shown are for all doctoral recipients, including temporary residents. Salaries are rounded to nearest hundred.

SOURCE National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

**Table 64. Median annual salaries of full-time employed doctoral scientists and engineers,
by occupation and citizenship status: 2001**

Occupation	Total	U.S. citizen			Non-U.S. citizen		
		Total	Native born	Naturalized	Total	Permanent resident	Temporary resident
All occupations.....	\$77,000	\$78,000	\$76,000	\$85,000	\$70,000	\$73,300	\$62,000
Scientists.....	70,000	70,100	70,000	77,000	65,000	69,500	53,000
Computer and information scientists.....	89,000	90,000	90,000	91,200	84,000	85,000	77,000
Computer/information scientists.....	90,600	95,000	93,000	98,000	85,000	90,000	80,000
Postsecondary teachers, computer sciences.....	71,000	71,000	70,000	77,000	70,000	70,000	70,000
Mathematical scientists.....	68,000	70,000	68,000	75,000	61,500	63,000	50,000
Mathematical scientists.....	87,100	90,000	90,000	87,000	80,000	83,000	73,000
Postsecondary teachers, math sciences.....	59,000	60,000	60,000	61,000	50,000	54,000	41,000
Life and related scientists.....	67,000	69,500	68,800	71,000	50,000	60,000	35,500
Agricultural and food scientists.....	68,600	70,000	70,000	66,000	50,000	56,500	36,000
Biological scientists, excluding medical scientists.....	65,000	68,000	68,000	72,000	45,000	60,000	33,700
Medical scientists.....	72,000	75,000	75,000	72,000	45,000	60,000	36,000
Forestry and conservation scientists.....	65,000	65,000	65,000	S	S	S	S
Postsecondary teachers, biological sciences.....	60,000	60,000	60,000	65,000	51,000	54,000	S
Postsecondary teachers, other life and related sciences.....	77,000	77,000	76,000	80,000	71,000	72,600	S
Physical and related scientists.....	77,000	79,500	78,900	80,000	65,000	69,000	51,000
Chemists, except biochemistry.....	83,000	85,000	87,000	80,000	69,000	75,000	55,000
Earth scientists.....	80,000	85,000	85,000	93,000	56,000	58,000	56,000
Physics and astronomers.....	90,000	92,000	92,000	96,000	72,000	75,400	45,000
Other physical scientists.....	80,000	80,000	80,000	S	S	S	S
Postsecondary teachers, chemistry.....	55,000	56,000	55,400	62,000	47,000	55,000	S
Postsecondary teachers, physics.....	63,000	64,000	63,000	65,000	51,000	52,000	S
Postsecondary teachers, other physical and related sciences.....	60,000	60,000	58,300	68,200	68,100	68,100	S
Social scientists.....	65,000	65,000	64,000	68,200	62,000	61,000	68,000
Economists.....	95,000	97,000	97,000	93,000	87,000	85,000	100,000
Political scientists.....	93,000	93,000	93,000	S	S	S	S
Sociologists and anthropologists.....	61,000	62,500	60,400	S	S	S	S
Other social scientists.....	60,000	60,000	60,000	S	S	S	S
Postsecondary teachers, economics.....	70,000	70,000	70,000	74,000	70,000	70,000	63,000
Postsecondary teachers, political science.....	56,000	57,000	57,600	54,000	48,000	54,400	S
Postsecondary teachers, sociology.....	56,000	56,000	56,000	57,000	50,000	52,000	S
Postsecondary teachers, other social sciences.....	55,000	55,300	55,000	69,000	50,000	50,000	S
Psychologists.....	63,000	63,000	63,000	60,000	60,000	65,000	43,000
Psychologists.....	67,000	67,000	68,000	57,100	64,000	65,000	S
Postsecondary teachers, psychology.....	56,000	56,000	56,000	64,800	49,000	52,000	S
Engineers.....	88,000	90,000	90,000	90,000	80,000	82,000	72,000
Aerospace/aeronautical engineers.....	91,000	92,000	92,500	89,500	78,000	S	S
Chemical engineers.....	90,000	92,000	91,000	96,000	77,500	80,000	70,000
Civil and architectural engineers.....	75,000	83,000	80,000	85,000	62,600	71,000	55,000
Electrical and related engineers.....	100,000	100,000	101,500	97,000	95,000	100,000	85,000
Materials/metallurgical engineers.....	90,000	91,000	91,000	94,000	72,000	S	S
Mechanical engineers.....	85,000	89,000	90,000	89,000	74,000	78,000	65,000
Other engineers.....	85,000	89,000	86,400	90,000	75,000	80,000	66,000
Postsecondary teachers, engineering.....	79,000	80,000	80,000	82,000	67,000	70,000	58,000
Non-S&E occupations.....	90,200	92,000	90,000	100,000	79,000	80,000	75,000
Managers, administrators, etc.....	110,000	110,000	110,000	115,000	110,000	120,000	100,000
Health and related occupations.....	83,000	85,000	85,000	92,000	43,100	45,000	S
Teachers, except S&E postsecondary teachers.....	59,000	60,000	59,000	66,000	52,500	53,000	44,000
Technicians/technologists.....	75,200	78,000	75,000	82,000	72,000	72,000	73,500
Sales and marketing occupations.....	80,000	80,000	75,000	90,000	69,000	69,000	S
Other non-S&E occupations.....	59,600	60,000	56,000	83,500	56,000	56,000	S

KEY: S=Suppressed due to too few cases (fewer than 200 weighted cases). S&E=science and engineering.

NOTE: Salaries are rounded to nearest hundred.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 65. Median annual salaries of full-time employed doctoral scientists and engineers, by occupation and age: 2001

Occupation	Total	Under 35	35-39	40-44	45-49	50-54	55-59	60-64	65-75
All occupations.....	\$77,000	\$59,000	\$68,000	\$75,000	\$80,000	\$83,000	\$85,000	\$88,000	\$85,000
Scientists.....	70,000	50,000	60,000	66,400	72,700	77,700	80,000	80,000	82,000
Computer and information scientists.....	89,000	85,000	87,000	90,000	89,000	90,000	90,000	85,000	82,000
Computer/information scientists.....	90,600	88,000	90,000	95,000	93,000	90,000	98,000	90,000	80,000
Postsecondary teachers, computer sciences.....	71,000	70,000	65,000	75,000	68,000	79,000	71,000	70,000	S
Mathematical scientists.....	68,000	50,000	60,000	66,000	66,100	77,500	77,000	80,000	70,000
Mathematical scientists.....	87,100	65,000	83,000	89,000	87,000	87,100	93,000	100,000	S
Postsecondary teachers, math sciences.....	59,000	44,000	48,500	50,500	60,000	69,000	71,000	70,000	66,300
Life and related scientists.....	67,000	38,000	55,000	64,000	72,000	78,000	80,000	85,000	90,000
Agricultural and food scientists.....	68,600	54,000	56,000	65,000	70,000	77,000	88,000	84,000	80,000
Biological scientists, excluding medical scientists.....	65,000	36,000	57,100	68,000	76,000	83,200	83,900	88,000	92,000
Medical scientists.....	72,000	36,000	53,500	71,000	80,000	92,000	97,100	91,000	110,000
Forestry and conservation scientists.....	65,000	S	S	55,000	75,000	S	S	S	S
Postsecondary teachers, biological sciences.....	60,000	41,000	46,000	54,000	60,000	60,000	68,600	71,000	72,000
Postsecondary teachers, other life and related sciences.....	77,000	49,000	62,000	65,000	78,000	80,000	80,000	90,000	93,000
Physical and related scientists.....	77,000	51,000	65,000	73,000	80,000	86,000	88,400	90,000	87,400
Chemists, except biochemistry.....	83,000	69,000	76,000	85,000	90,000	97,100	95,000	93,000	68,000
Earth scientists.....	80,000	50,000	60,000	72,000	80,000	95,000	94,000	103,000	111,300
Physics and astronomers.....	90,000	52,000	76,000	80,000	97,000	100,000	105,000	105,000	100,000
Other physical scientists.....	80,000	S	S	S	S	S	S	S	S
Postsecondary teachers, chemistry.....	55,000	42,000	47,900	53,000	56,000	58,200	69,500	70,000	69,100
Postsecondary teachers, physics.....	63,000	45,000	50,000	55,000	65,000	68,500	77,500	80,000	85,000
Postsecondary teachers, other physical and related sciences.....	60,000	46,000	52,500	54,000	55,000	72,500	82,000	97,000	76,000
Social scientists.....	65,000	55,000	54,000	57,700	63,000	68,000	74,000	76,000	80,000
Economists.....	95,000	85,000	80,000	96,000	100,000	110,000	108,400	110,000	S
Political scientists.....	93,000	S	54,000	S	S	118,400	S	S	S
Sociologists and anthropologists.....	61,000	45,000	52,000	53,500	65,000	65,000	72,000	S	S
Other social scientists.....	60,000	47,000	53,000	58,000	54,000	69,700	69,500	S	S
Postsecondary teachers, economics.....	70,000	63,000	58,000	65,000	74,800	71,000	78,000	86,000	76,000
Postsecondary teachers, political science.....	56,000	44,000	45,000	50,000	54,000	65,000	62,000	73,000	83,000
Postsecondary teachers, sociology.....	56,000	45,000	50,000	50,000	51,000	60,000	60,000	66,400	79,000
Postsecondary teachers, other social sciences.....	55,000	44,000	50,000	45,000	51,000	57,600	68,000	68,000	85,000
Psychologists.....	63,000	45,000	52,700	58,000	67,000	72,000	70,000	70,000	75,000
Psychologists.....	67,000	45,000	60,000	63,000	71,000	75,000	70,000	70,000	70,000
Postsecondary teachers, psychology.....	56,000	45,000	46,000	50,000	58,000	60,000	70,000	71,000	80,000
Engineers.....	88,000	75,000	81,500	85,000	90,000	95,000	100,000	100,000	100,000
Aerospace/aeronautical engineers.....	91,000	73,800	85,000	84,000	97,000	98,000	105,000	103,200	S
Chemical engineers.....	90,000	76,000	85,000	90,000	98,000	106,600	103,000	95,000	S
Civil and architectural engineers.....	75,000	62,600	70,000	75,000	85,000	84,000	104,000	107,000	S
Electrical and related engineers.....	100,000	92,400	95,000	99,600	100,000	105,000	115,000	106,000	120,000
Materials/metallurgical engineers.....	90,000	S	85,000	92,000	80,000	S	S	S	S
Mechanical engineers.....	85,000	72,000	79,000	80,000	91,000	90,000	101,000	105,000	110,000
Other engineers.....	85,000	74,000	79,000	85,000	90,000	97,000	98,000	94,500	82,000
Postsecondary teachers, engineering.....	79,000	65,000	65,000	73,000	80,000	85,000	89,000	90,000	96,000
Non-S&E occupations.....	90,200	65,000	80,000	90,000	95,000	95,000	100,000	98,000	82,000
Managers, administrators, etc.....	110,000	95,000	103,000	105,000	110,000	113,000	115,000	114,200	111,700
Health and related occupations.....	83,000	38,000	53,000	90,000	100,000	100,000	92,000	110,000	96,000
Teachers, except S&E postsecondary teachers.....	59,000	45,000	51,200	52,000	58,000	59,000	65,000	70,000	65,000
Technicians/technologists.....	75,200	75,000	70,000	80,000	80,000	81,700	76,700	64,000	S
Sales and marketing occupations.....	80,000	82,000	75,000	77,000	85,000	90,000	95,000	65,000	19,800
Other non-S&E occupations.....	59,600	60,000	62,000	86,000	65,000	61,000	50,000	54,000	35,000

KEY: S=Suppressed due to too few cases (fewer than 200 weighted cases). S&E=science and engineering.

NOTE: Salaries are rounded to nearest hundred.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 66. Median annual salaries of full-time employed doctoral scientists and engineers, by occupation and years since doctorate: 2001

Occupation	Total	5 years or less	6-10 years	11-15 years	16-20 years	21-25 years	More than 25 years
All occupations.....	\$77,000	\$57,200	\$70,000	\$77,000	\$85,000	\$90,000	\$94,000
Scientists.....	70,000	50,000	64,000	70,000	78,100	84,000	85,000
Computer and information scientists.....	89,000	80,000	90,000	95,000	90,000	95,000	90,000
Computer/information scientists.....	90,600	83,000	94,000	100,000	93,000	100,000	97,000
Postsecondary teachers, computer sciences.....	71,000	65,000	65,000	75,000	79,000	82,000	73,200
Mathematical scientists.....	68,000	50,000	60,000	65,000	72,000	76,000	80,000
Mathematical scientists.....	87,100	73,500	85,000	92,500	90,000	105,000	101,000
Postsecondary teachers, math sciences.....	59,000	42,200	50,000	55,000	65,000	64,000	72,000
Life and related scientists.....	67,000	41,000	60,000	72,000	79,800	85,000	87,000
Agricultural and food scientists.....	68,600	51,000	62,000	70,000	78,000	75,000	90,000
Biological scientists, excluding medical scientists.....	65,000	38,000	65,000	80,000	85,000	88,500	92,000
Medical scientists.....	72,000	40,000	65,000	80,000	90,000	100,000	102,500
Forestry and conservation scientists.....	65,000	S	S	72,000	67,000	S	S
Postsecondary teachers, biological sciences.....	60,000	42,000	49,000	55,000	61,700	61,800	73,000
Postsecondary teachers, other life and related sciences.....	77,000	52,500	65,000	74,000	80,000	80,000	90,000
Physical and related scientists.....	77,000	54,000	68,000	74,000	84,400	93,000	90,000
Chemists, except biochemistry.....	83,000	69,000	80,000	85,000	92,000	96,200	96,500
Earth scientists.....	80,000	52,500	70,000	72,000	92,000	97,800	104,000
Physics and astronomers.....	90,000	60,000	81,000	80,000	100,000	105,000	104,000
Other physical scientists.....	80,000	68,000	S	S	S	S	94,000
Postsecondary teachers, chemistry.....	55,000	42,000	48,000	52,000	58,500	66,000	70,000
Postsecondary teachers, physics.....	63,000	41,000	52,000	58,000	66,000	79,000	80,300
Postsecondary teachers, other physical and related sciences.....	60,000	50,000	52,000	56,000	68,000	81,500	80,000
Social scientists.....	65,000	50,000	54,000	62,000	70,000	73,000	81,000
Economists.....	95,000	80,000	85,000	97,000	115,000	115,000	108,000
Political scientists.....	93,000	62,000	80,000	S	S	S	100,000
Sociologists and anthropologists.....	61,000	52,000	65,000	60,000	80,000	71,000	83,000
Other social scientists.....	60,000	53,000	47,000	S	62,000	95,400	110,000
Postsecondary teachers, economics	70,000	60,000	60,000	65,000	74,000	75,000	85,000
Postsecondary teachers, political science	56,000	44,000	48,000	52,000	64,000	65,000	78,000
Postsecondary teachers, sociology	56,000	43,600	48,000	54,000	60,000	62,000	70,000
Postsecondary teachers, other social sciences	55,000	44,000	49,000	55,300	60,000	64,000	76,000
Psychologists.....	63,000	46,000	60,000	64,500	70,000	76,000	75,000
Psychologists.....	67,000	48,000	64,500	70,000	75,000	80,000	75,000
Postsecondary teachers, psychology.....	56,000	42,000	49,000	52,000	60,000	63,000	75,500
Engineers.....	88,000	75,000	83,400	90,000	95,000	100,000	103,000
Aerospace/aeronautical engineers.....	91,000	75,000	85,500	91,000	93,000	101,000	105,000
Chemical engineers.....	90,000	75,000	89,300	94,000	105,000	103,000	100,000
Civil and architectural engineers.....	75,000	60,000	75,000	85,000	92,000	S	110,000
Electrical and related engineers.....	100,000	90,000	100,000	103,000	106,000	100,300	112,000
Materials/metallurgical engineers.....	90,000	72,000	95,000	S	84,500	S	S
Mechanical engineers.....	85,000	74,000	82,400	88,000	93,700	100,000	105,000
Other engineers.....	85,000	72,000	84,000	90,000	96,000	100,000	100,000
Postsecondary teachers, engineering.....	79,000	60,000	67,300	78,000	87,000	90,000	95,000
Non-S&E occupations.....	90,200	60,000	76,800	90,000	100,000	104,000	110,000
Managers, administrators, etc.....	110,000	85,000	96,000	104,000	110,000	120,000	123,000
Health and related occupations.....	83,000	42,000	70,000	90,000	110,000	120,000	114,400
Teachers, except S&E postsecondary teachers.....	59,000	48,000	54,000	60,000	70,000	70,000	77,000
Technicians/technologists.....	75,200	72,000	76,200	72,000	86,000	80,000	76,700
Sales and marketing occupations.....	80,000	70,000	72,000	85,000	87,000	85,000	80,000
Other non-S&E occupations.....	59,600	52,000	62,000	72,000	75,000	63,200	50,000

KEY: S=Suppressed due to too few cases (fewer than 200 weighted cases). S&E=science and engineering.

NOTE: Salaries are rounded to nearest hundred.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 67. Median annual salaries of full-time employed doctoral scientists and engineers, by occupation, and sector of employment: 2001

Occupation	Total	Universities and 4-year colleges	Other educational institutions	Private-for- profit	Self- employed	Private not- for-profit	Federal Govern- ment	State and local government	Other sector
All occupations.....	\$77,000	\$64,000	\$52,000	\$95,000	\$75,000	\$75,000	\$83,000	\$62,000	\$125,000
Scientists.....	70,000	60,000	52,000	90,000	80,000	70,000	80,000	60,000	120,000
Computer and information scientists.....	89,000	70,000	54,000	95,000	65,000	90,200	93,500	64,300	S
Computer/information scientists.....	90,600	61,500	S	95,000	65,000	90,200	93,500	64,300	S
Postsecondary teachers, computer sciences.....	71,000	71,000	S	S	S	S	S	S	S
Mathematical scientists.....	68,000	60,000	50,600	100,000	100,000	88,000	83,000	62,000	S
Mathematical scientists.....	87,100	66,000	S	100,000	100,000	88,000	83,000	62,000	S
Postsecondary teachers, math sciences.....	59,000	60,000	50,600	S	S	S	S	S	S
Life and related scientists.....	67,000	60,000	48,000	84,000	70,000	63,000	73,000	58,000	S
Agricultural and food scientists.....	68,600	60,000	S	78,000	60,000	S	75,000	S	S
Biological scientists, excluding medical scientists.....	65,000	42,000	S	81,000	70,000	57,000	72,000	53,000	S
Medical scientists.....	72,000	51,200	S	90,000	S	70,000	77,000	68,000	S
Forestry and conservation scientists.....	65,000	S	S	S	S	S	61,000	S	S
Postsecondary teachers, biological sciences.....	60,000	60,000	48,000	S	S	S	S	S	S
Postsecondary teachers, other life and related sciences.....	77,000	77,000	S	S	S	S	S	S	S
Physical and related scientists.....	77,000	60,000	50,000	89,000	100,000	84,000	87,400	68,000	S
Chemists, except biochemistry.....	83,000	40,000	S	86,000	100,000	74,600	80,000	56,700	S
Earth scientists.....	80,000	63,000	S	90,000	S	84,000	92,000	54,500	S
Physics and astronomers.....	90,000	70,000	S	98,000	S	86,000	92,000	98,000	S
Other physical scientists.....	80,000	S	S	90,000	S	S	76,000	S	S
Postsecondary teachers, chemistry.....	55,000	56,000	47,500	S	S	S	S	S	S
Postsecondary teachers, physics.....	63,000	64,000	50,000	S	S	S	S	S	S
Postsecondary teachers, other physical and related sciences.....	60,000	60,000	S	S	S	S	S	S	S
Social scientists.....	65,000	60,000	50,000	100,000	75,000	82,000	82,000	57,000	130,000
Economists.....	95,000	72,000	S	104,900	100,000	83,000	89,000	65,000	129,000
Political scientists.....	93,000	87,700	S	S	S	S	93,000	S	S
Sociologists and anthropologists.....	61,000	53,500	S	80,000	S	83,000	69,000	49,100	S
Other social scientists.....	60,000	54,000	S	65,000	S	75,000	61,000	57,000	S
Postsecondary teachers, economics	70,000	70,000	S	S	S	S	S	S	S
Postsecondary teachers, political science	56,000	56,000	S	S	S	S	S	S	S
Postsecondary teachers, sociology	56,000	56,000	S	S	S	S	S	S	S
Postsecondary teachers, other social sciences	55,000	55,000	48,000	S	S	S	S	S	S
Psychologists.....	63,000	56,000	58,000	76,200	80,000	58,000	75,000	60,000	S
Psychologists.....	67,000	57,000	60,000	76,200	80,000	58,000	75,000	60,000	S
Postsecondary teachers, psychology.....	56,000	56,000	51,000	S	S	S	S	S	S
Engineers.....	88,000	80,000	44,100	91,000	100,000	90,000	87,000	65,000	S
Aerospace/aeronautical engineers.....	91,000	87,500	S	93,000	S	92,000	80,300	S	S
Chemical engineers.....	90,000	85,000	S	90,000	S	S	85,000	S	S
Civil and architectural engineers.....	75,000	75,000	S	80,000	100,000	S	84,000	62,000	S
Electrical and related engineers.....	100,000	90,000	S	100,000	120,000	99,000	94,000	S	S
Materials/metallurgical engineers.....	90,000	S	S	88,400	S	S	S	S	S
Mechanical engineers.....	85,000	80,000	S	85,000	S	S	87,600	S	S
Other engineers.....	85,000	72,000	S	87,000	100,000	85,000	86,000	68,000	S
Postsecondary teachers, engineering.....	79,000	79,900	44,100	S	S	S	S	S	S
Non-S&E occupations.....	90,200	75,000	52,000	112,000	60,000	81,000	97,000	68,000	S
Top/mid-level managers, administrators, etc.....	110,000	101,000	75,000	121,000	120,000	95,000	105,000	72,000	S
Health and related occupations.....	83,000	62,500	S	108,000	120,000	77,000	78,000	52,000	S
Teachers, except S&E postsecondary teachers.....	59,000	62,300	43,000	S	S	S	S	S	S
Technicians/technologists.....	75,200	52,000	S	80,000	S	S	78,000	55,000	S
Sales and marketing occupations.....	80,000	S	S	86,000	50,000	S	S	S	S
Other non-S&E occupations.....	59,600	50,000	50,000	87,000	35,000	45,000	71,000	52,500	S

KEY: S=Suppressed due to too few cases (fewer than 200 weighted cases). S&E=science and engineering.

NOTE: Salaries are rounded to nearest hundred.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 68. Median annual salaries of full-time employed doctoral scientists and engineers, by sector of employment, broad occupation, and sex: 2001

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Employment sector/occupation	Total	Male	Female
All sectors.....	\$77,000	\$81,000	\$62,000
Scientists.....	70,000	75,000	60,000
Computer and information scientists.....	89,000	90,000	80,000
Mathematical scientists.....	68,000	70,000	61,000
Life and related scientists.....	67,000	70,000	58,000
Physical and related scientists.....	77,000	80,000	62,600
Social scientists.....	65,000	68,000	56,000
Psychologists.....	63,000	70,000	58,000
Engineers.....	88,000	89,000	80,000
Non-S&E occupations.....	90,200	100,000	69,000
University and 4-year colleges.....	64,000	69,000	54,000
Scientists.....	60,000	64,000	51,000
Computer and information scientists.....	70,000	71,000	64,600
Mathematical scientists.....	60,000	61,000	51,500
Life and related scientists.....	60,000	65,000	50,000
Physical and related scientists.....	60,000	63,000	51,000
Social scientists.....	60,000	64,000	53,000
Psychologists.....	56,000	63,000	51,000
Engineers.....	80,000	80,000	67,400
Non-S&E occupations.....	75,000	90,000	62,000
Other educational institutions.....	52,000	52,000	52,000
Scientists.....	52,000	52,000	52,000
Computer and information scientists.....	54,000	S	S
Mathematical scientists.....	50,600	50,600	S
Life and related scientists.....	48,000	48,600	47,000
Physical and related scientists.....	50,000	50,000	44,900
Social scientists.....	50,000	48,000	50,000
Psychologists.....	58,000	64,000	55,000
Engineers.....	44,100	S	S
Non-S&E occupations.....	52,000	52,000	52,000
Private-for-profit.....	95,000	97,000	82,500
Scientists.....	90,000	91,000	79,900
Computer and information scientists.....	95,000	95,000	90,000
Mathematical scientists.....	100,000	100,000	90,000
Life and related scientists.....	84,000	86,000	76,000
Physical and related scientists.....	89,000	90,000	78,000
Social scientists.....	100,000	102,000	85,000
Psychologists.....	76,200	85,000	68,000
Engineers.....	91,000	92,000	86,000
Non-S&E occupations.....	112,000	115,000	98,000
Self-employed.....	75,000	81,000	62,300
Scientists.....	80,000	86,000	70,000
Computer and information scientists.....	65,000	60,000	S
Mathematical scientists.....	100,000	S	S
Life and related scientists.....	70,000	68,600	70,000
Physical and related scientists.....	100,000	100,000	S
Social scientists.....	75,000	100,000	S
Psychologists.....	80,000	90,000	70,000
Engineers.....	100,000	105,000	S
Non-S&E occupations.....	60,000	70,000	40,000

See explanatory information and SOURCE at end of table.

Table 68. Median annual salaries of full-time employed doctoral scientists and engineers, by sector of employment, broad occupation, and sex: 2001

Page 2 of 2

Employment sector/occupation	Total	Male	Female
Private not-for-profit.....	\$75,000	\$80,000	\$65,000
Scientists.....	70,000	75,000	60,000
Computer and information scientists.....	90,200	90,600	S
Mathematical scientists.....	88,000	100,000	75,000
Life and related scientists.....	63,000	75,000	45,500
Physical and related scientists.....	84,000	86,000	65,000
Social scientists.....	82,000	83,000	82,000
Psychologists.....	58,000	60,000	56,000
Engineers.....	90,000	91,000	85,000
Non-S&E occupations.....	81,000	90,000	72,000
Federal Government.....	83,000	85,300	75,000
Scientists.....	80,000	82,000	72,000
Computer and information scientists.....	93,500	97,000	S
Mathematical scientists.....	83,000	85,000	79,000
Life and related scientists.....	73,000	75,000	65,000
Physical and related scientists.....	87,400	89,500	73,800
Social scientists.....	82,000	85,000	80,000
Psychologists.....	75,000	75,000	74,000
Engineers.....	87,000	89,000	80,000
Non-S&E occupations.....	97,000	100,000	89,000
State and local government.....	62,000	63,500	60,000
Scientists.....	60,000	60,000	60,000
Computer and information scientists.....	64,300	52,800	S
Mathematical scientists.....	62,000	S	S
Life and related scientists.....	58,000	60,000	50,000
Physical and related scientists.....	68,000	69,000	S
Social scientists.....	57,000	59,300	S
Psychologists.....	60,000	60,000	60,000
Engineers.....	65,000	65,000	S
Non-S&E occupations.....	68,000	70,000	60,000
Other sector.....	125,000	129,000	120,000
Scientists.....	120,000	120,000	120,000
Computer and information scientists.....	S	S	S
Mathematical scientists.....	S	S	S
Life and related scientists.....	S	S	S
Physical and related scientists.....	S	S	S
Social scientists.....	130,000	129,000	130,000
Psychologists.....	S	S	S
Engineers.....	S	S	S
Non-S&E occupations.....	S	S	S

KEY: S=Suppressed due to too few cases (fewer than 200 weighted cases). S&E=science and engineering.

NOTE: Salaries are rounded to nearest hundred.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 69. Median annual salaries of full-time employed doctoral scientists and engineers, by sector of employment, broad occupation, and race/ethnicity: 2001

Page 1 of 2

Employment sector/occupation	Total	White ¹	Black	Asian/Pacific Islander	Hispanic	American Indian/Alaskan Native
All sectors.....	\$77,000	\$77,000	\$67,000	\$80,000	\$69,000	\$64,000
Scientists.....	70,000	70,000	61,000	71,500	64,000	60,000
Computer and information scientists.....	89,000	90,000	74,400	88,000	89,000	S
Mathematical scientists.....	68,000	68,000	63,000	70,000	61,500	S
Life and related scientists.....	67,000	69,400	60,000	60,000	57,000	62,400
Physical and related scientists.....	77,000	78,300	67,300	74,000	73,700	55,400
Social scientists.....	65,000	65,000	60,000	62,400	63,000	54,000
Psychologists.....	63,000	64,000	59,000	52,000	56,800	65,000
Engineers.....	88,000	90,000	80,000	87,000	78,000	S
Non-S&E occupations.....	90,200	92,000	70,000	95,000	77,000	65,000
University and 4-year colleges.....	64,000	65,000	60,000	58,000	57,600	60,000
Scientists.....	60,000	61,000	55,000	53,300	55,000	55,400
Computer and information scientists.....	70,000	70,000	S	72,000	S	S
Mathematical scientists.....	60,000	60,000	55,000	50,000	56,000	S
Life and related scientists.....	60,000	63,000	53,100	45,000	50,000	S
Physical and related scientists.....	60,000	61,000	49,600	57,000	62,000	S
Social scientists.....	60,000	60,000	56,500	58,000	57,000	54,000
Psychologists.....	56,000	57,000	55,000	49,000	54,000	S
Engineers.....	80,000	80,000	75,000	78,000	71,000	S
Non-S&E occupations.....	75,000	78,000	68,000	60,000	60,000	S
Other educational institutions.....	52,000	52,000	53,000	56,000	52,000	S
Scientists.....	52,000	52,000	53,000	60,000	55,000	S
Computer and information scientists.....	54,000	S	S	S	S	S
Mathematical scientists.....	50,600	50,600	S	S	S	S
Life and related scientists.....	48,000	48,000	S	S	S	S
Physical and related scientists.....	50,000	48,000	S	S	S	S
Social scientists.....	50,000	50,000	S	S	S	S
Psychologists.....	58,000	58,600	S	S	S	S
Engineers.....	44,100	S	S	S	S	S
Non-S&E occupations.....	52,000	50,000	53,000	S	S	S
Private-for-profit.....	95,000	98,000	85,000	90,000	90,000	111,000
Scientists.....	90,000	90,000	79,000	84,000	85,000	93,000
Computer and information scientists.....	95,000	100,000	79,000	90,000	99,000	S
Mathematical scientists.....	100,000	100,000	S	91,200	S	S
Life and related scientists.....	84,000	87,000	75,000	77,000	85,000	S
Physical and related scientists.....	89,000	92,000	80,000	80,000	77,000	S
Social scientists.....	100,000	110,000	S	90,000	S	S
Psychologists.....	76,200	75,000	85,000	S	100,000	S
Engineers.....	91,000	94,000	82,000	90,000	89,300	S
Non-S&E occupations.....	112,000	115,000	107,000	105,000	110,000	S
Self-employed.....	75,000	75,000	70,000	80,000	90,000	S
Scientists.....	80,000	80,000	75,000	60,000	S	S
Computer and information scientists.....	65,000	65,000	S	S	S	S
Mathematical scientists.....	100,000	S	S	S	S	S
Life and related scientists.....	70,000	75,000	S	S	S	S
Physical and related scientists.....	100,000	100,000	S	S	S	S
Social scientists.....	75,000	75,000	S	S	S	S
Psychologists.....	80,000	80,000	75,000	S	S	S
Engineers.....	100,000	120,000	S	S	S	S
Non-S&E occupations.....	60,000	55,000	S	100,000	S	S

See explanatory information and SOURCE at end of table.

Table 69. Median annual salaries of full-time employed doctoral scientists and engineers, by sector of employment, broad occupation, and race/ethnicity: 2001

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Employment sector/occupation	Total	White ¹	Black	Asian/Pacific Islander	Hispanic	American Indian/Alaskan Native
Private not-for-profit.....	\$75,000	\$76,000	\$75,000	\$69,000	\$70,000	S
Scientists.....	70,000	72,000	S	62,000	65,000	S
Computer and information scientists.....	90,200	94,300	S	79,900	S	S
Mathematical scientists.....	88,000	100,000	S	S	S	S
Life and related scientists.....	63,000	65,000	S	60,000	S	S
Physical and related scientists.....	84,000	86,100	S	58,500	S	S
Social scientists.....	82,000	83,000	S	S	S	S
Psychologists.....	58,000	60,000	S	50,000	S	S
Engineers.....	90,000	92,000	S	85,000	S	S
Non-S&E occupations.....	81,000	83,700	80,000	71,500	S	S
Federal Government.....	83,000	84,700	78,000	80,000	86,600	S
Scientists.....	80,000	80,000	74,100	78,000	85,000	S
Computer and information scientists.....	93,500	90,000	S	99,500	S	S
Mathematical scientists.....	83,000	85,000	S	82,200	S	S
Life and related scientists.....	73,000	73,000	72,100	66,000	S	S
Physical and related scientists.....	87,400	89,000	S	80,000	94,000	S
Social scientists.....	82,000	82,000	S	74,000	S	S
Psychologists.....	75,000	75,000	S	S	S	S
Engineers.....	87,000	90,000	S	83,000	S	S
Non-S&E occupations.....	97,000	98,000	83,500	78,000	S	S
State and local government.....	62,000	63,000	65,000	58,000	67,200	S
Scientists.....	60,000	60,000	62,500	55,000	57,000	S
Computer and information scientists.....	64,300	S	S	S	S	S
Mathematical scientists.....	62,000	63,000	S	S	S	S
Life and related scientists.....	58,000	60,000	S	S	S	S
Physical and related scientists.....	68,000	69,000	S	S	S	S
Social scientists.....	57,000	58,000	S	S	S	S
Psychologists.....	60,000	60,000	S	S	S	S
Engineers.....	65,000	67,900	S	61,500	S	S
Non-S&E occupations.....	68,000	68,000	70,000	69,000	S	S
Other sector.....	125,000	130,000	S	90,000	S	S
Scientists.....	120,000	129,000	S	S	S	S
Computer and information scientists.....	S	S	S	S	S	S
Mathematical scientists.....	S	S	S	S	S	S
Life and related scientists.....	S	S	S	S	S	S
Physical and related scientists.....	S	S	S	S	S	S
Social scientists.....	130,000	130,000	S	S	S	S
Psychologists.....	S	S	S	S	S	S
Engineers.....	S	S	S	S	S	S
Non-S&E occupations.....	S	S	S	S	S	S

¹ 'Other' race included with 'white'.

KEY: S=Suppressed due to too few cases (fewer than 200 weighted cases). S&E=science and engineering.

NOTE: The race/ethnicity data shown are for all doctoral recipients, including temporary residents. Salaries are rounded to nearest hundred.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 70. Median annual salaries of full-time employed doctoral scientists and engineers, by occupation and primary or secondary work activities: 2001

Occupation	Total	R&D ¹	Teaching	Management, sales, and administration	Computer applications	Professional services	Other activities
All occupations.....	\$77,000	\$78,000	\$62,000	\$89,300	\$80,000	\$73,500	\$72,000
Scientists.....	70,000	72,000	60,000	78,000	80,000	70,000	68,000
Computer and information scientists.....	89,000	91,200	70,000	95,000	89,000	89,000	74,000
Computer/information scientists.....	90,600	95,000	64,000	98,000	90,000	89,000	80,000
Postsecondary teachers, computer sciences.....	71,000	75,000	70,000	75,000	66,000	S	70,000
Mathematical scientists.....	68,000	72,000	58,300	85,200	80,000	66,700	68,000
Mathematical scientists.....	87,100	87,000	80,000	104,700	83,000	75,000	85,000
Postsecondary teachers, math sciences.....	59,000	60,000	58,000	60,000	54,400	S	57,000
Life and related scientists.....	67,000	68,000	64,200	75,000	60,000	75,000	68,000
Agricultural and food scientists.....	68,600	68,000	60,000	79,000	66,000	60,000	70,000
Biological scientists, excluding medical scientists.....	65,000	65,000	55,000	75,000	50,000	60,000	73,000
Medical scientists.....	72,000	71,000	74,000	82,000	60,000	90,000	75,000
Forestry and conservation scientists.....	65,000	68,000	S	68,000	S	S	S
Postsecondary teachers, biological sciences.....	60,000	62,000	57,200	58,500	52,000	50,000	52,300
Postsecondary teachers, other life and related sciences.....	77,000	75,800	75,000	80,000	70,000	100,000	65,000
Physical and related scientists.....	77,000	80,000	59,000	85,000	76,500	80,000	73,800
Chemists, except biochemistry.....	83,000	83,000	61,000	86,600	78,000	70,000	76,000
Earth scientists.....	80,000	80,000	58,000	90,000	75,000	82,000	92,600
Physics and astronomers.....	90,000	88,800	78,400	100,000	87,000	100,000	81,000
Other physical scientists.....	80,000	80,000	S	76,000	S	S	S
Postsecondary teachers, chemistry.....	55,000	59,000	55,000	57,000	52,000	52,000	54,000
Postsecondary teachers, physics.....	63,000	64,000	62,000	74,000	50,000	S	S
Postsecondary teachers, other physical and related sciences.....	60,000	60,000	57,000	68,000	S	S	S
Social scientists.....	65,000	65,000	60,000	78,000	70,000	82,000	65,000
Economists.....	95,000	90,000	S	110,000	75,000	100,000	108,000
Political scientists.....	93,000	98,600	S	98,600	S	S	93,000
Sociologists and anthropologists.....	61,000	62,500	54,000	64,000	56,000	53,000	S
Other social scientists.....	60,000	60,000	S	65,000	S	S	S
Postsecondary teachers, economics.....	70,000	71,500	70,000	71,000	77,900	S	61,000
Postsecondary teachers, political science.....	56,000	56,000	56,000	65,000	S	S	49,000
Postsecondary teachers, sociology.....	56,000	56,000	55,000	60,000	S	53,400	50,000
Postsecondary teachers, other social sciences.....	55,000	55,000	54,000	61,000	S	55,000	51,000
Psychologists.....	63,000	60,000	58,500	65,000	60,000	65,000	56,000
Psychologists.....	67,000	65,000	70,000	68,000	60,000	66,000	64,500
Postsecondary teachers, psychology.....	56,000	57,000	55,000	56,000	S	54,000	55,000
Engineers.....	88,000	89,000	78,000	94,000	86,000	80,000	89,000
Aerospace/aeronautical engineers.....	91,000	91,000	S	92,000	92,000	S	95,000
Chemical engineers.....	90,000	90,000	S	95,000	90,000	S	80,000
Civil and architectural engineers.....	75,000	74,500	S	86,000	70,000	75,000	S
Electrical and related engineers.....	100,000	100,000	S	110,000	95,000	S	97,500
Materials/metallurgical engineers.....	90,000	88,400	S	90,000	90,000	S	S
Mechanical engineers.....	85,000	85,700	S	90,000	81,000	S	79,000
Other engineers.....	85,000	86,000	61,000	87,000	80,000	79,100	81,500
Postsecondary teachers, engineering.....	79,000	79,000	78,000	90,500	56,000	S	72,500
Non-S&E occupations.....	90,200	95,000	62,000	100,000	80,000	85,000	72,000
Top/mid-level managers, administrators, etc.....	110,000	120,000	84,000	110,000	103,000	98,000	100,000
Health and related occupations.....	83,000	74,500	80,000	90,000	62,000	90,000	68,500
Teachers, except S&E postsecondary teachers.....	59,000	65,000	58,000	59,000	50,000	62,000	56,000
Technicians/technologists.....	75,200	80,000	69,100	79,000	73,500	S	60,000
Sales and marketing occupations.....	80,000	87,000	S	80,000	80,000	60,000	40,000
Other non-S&E occupations.....	59,600	60,000	50,000	70,000	52,000	72,000	44,300

¹ R&D includes basic or applied research, development and design.

KEY: S=Suppressed due to too few cases (fewer than 200 weighted cases). S&E=science and engineering.

NOTE: Salaries are rounded to nearest hundred. If respondent reported more than one type of activity as their primary and secondary work activity, their salary appears in both categories.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients

Table 71. Median annual salaries of full-time employed doctoral scientists and engineers, by employer location and broad occupation: 2001

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Employer location	Total	Scientists							Engineers	Non-S&E occupations
		All scientists	Computer and information scientists	Mathematical scientists	Life and related scientists	Physical and related scientists	Social and related scientists	Psychologists		
All locations.....	\$77,000	\$70,000	\$89,000	\$68,000	\$67,000	\$77,000	\$65,000	\$63,000	\$88,000	\$90,200
New England.....	80,000	74,000	90,000	76,000	68,000	80,000	72,000	61,000	90,000	93,000
Connecticut.....	80,000	79,000	83,000	89,800	77,500	86,000	79,000	66,000	78,000	108,000
Maine.....	60,000	56,300	S	S	48,000	60,000	58,000	80,000	S	75,000
Massachusetts.....	80,000	75,000	90,000	72,000	68,000	83,000	75,000	65,000	92,000	100,000
New Hampshire.....	70,000	58,000	104,000	S	40,300	60,500	S	53,000	85,800	85,000
Rhode Island.....	72,500	65,000	S	S	55,000	89,000	67,300	59,400	90,000	67,800
Vermont.....	64,000	54,000	S	S	60,000	S	49,800	54,000	94,000	73,000
Middle Atlantic.....	80,000	75,000	93,000	75,000	74,900	80,000	68,500	70,000	90,000	99,000
New Jersey.....	90,000	85,000	100,000	89,000	80,000	88,000	75,000	73,200	98,500	110,000
New York.....	80,000	73,000	90,000	73,300	69,000	78,000	65,000	70,000	89,000	96,000
Pennsylvania.....	75,000	69,500	80,000	66,000	70,000	69,000	69,500	62,500	87,000	87,000
East North Central.....	72,000	65,000	75,000	65,000	65,000	73,300	60,000	59,000	81,000	84,000
Illinois.....	75,000	70,000	87,500	67,500	65,000	72,500	65,000	60,000	87,000	83,000
Indiana.....	70,000	63,100	67,000	58,000	70,000	70,200	63,000	51,000	71,000	90,000
Michigan.....	77,000	67,000	78,000	72,000	65,000	76,000	61,000	59,000	87,000	99,000
Ohio.....	72,000	65,000	70,000	72,800	65,000	74,000	58,900	60,000	80,000	75,000
Wisconsin.....	65,000	60,000	56,500	49,400	65,000	65,000	58,000	57,000	78,000	73,400
West North Central.....	65,000	60,000	70,000	60,000	63,000	60,000	54,200	54,000	82,000	80,000
Iowa.....	64,000	61,700	S	62,000	65,000	63,000	68,000	55,000	67,100	72,200
Kansas.....	56,000	52,000	S	S	50,000	50,000	50,000	65,000	75,000	63,000
Minnesota.....	72,000	62,000	66,700	70,000	64,000	72,000	54,500	55,000	85,000	91,000
Missouri.....	64,000	55,000	S	59,000	57,000	53,500	59,000	48,300	90,000	80,000
Nebraska.....	60,000	60,000	S	S	60,000	S	S	S	S	S
North Dakota.....	67,000	65,000	S	S	79,000	61,300	50,000	60,000	S	70,000
South Dakota.....	58,000	53,000	S	S	64,000	S	S	S	S	60,000
South Atlantic.....	79,000	72,000	87,000	72,000	70,000	76,000	72,000	64,000	88,400	90,000
Delaware.....	91,000	85,000	S	S	89,000	94,000	S	S	96,000	100,000
District of Columbia.....	93,000	87,400	75,000	87,000	75,000	84,000	96,000	78,000	97,100	104,000
Florida.....	68,000	63,000	75,000	45,000	65,000	63,000	53,000	62,000	80,000	76,000
Georgia.....	70,000	63,000	95,000	56,000	70,000	60,000	55,000	62,000	87,500	86,000
Maryland.....	82,000	75,000	90,000	84,000	71,000	82,000	66,000	65,000	93,000	97,000
North Carolina.....	75,000	67,500	85,000	67,200	72,000	70,000	55,000	60,000	90,000	85,000
South Carolina.....	67,000	63,500	S	65,000	64,000	65,000	51,000	62,000	80,000	75,000
Virginia.....	80,800	75,000	94,300	85,200	68,000	78,000	65,000	63,400	95,000	96,000
West Virginia.....	76,000	75,000	S	S	62,000	83,000	S	S	82,900	85,000

See explanatory information and SOURCE at end of table.

Table 71. Median annual salaries of full-time employed doctoral scientists and engineers, by employer location and broad occupation: 2001

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Employer location	Total	Scientists						Engineers	Non-S&E occupations	
		All scientists	Computer and information scientists	Mathematical scientists	Life and related scientists	Physical and related scientists	Social and related scientists			
East South Central.....	\$67,000	\$61,200	\$75,000	\$57,000	\$60,000	\$67,000	\$55,000	\$65,000	\$75,000	\$80,000
Alabama.....	73,900	65,000	84,000	63,000	67,500	64,900	50,000	62,000	75,000	100,000
Kentucky.....	62,000	60,000	82,000	57,000	60,000	54,000	55,000	64,800	73,000	69,000
Mississippi.....	68,000	65,000	S	S	63,000	77,500	S	S	81,000	74,000
Tennessee.....	67,000	60,000	65,000	S	55,000	67,000	56,200	70,000	75,000	80,000
West South Central.....	75,000	68,500	82,500	59,300	62,000	75,000	61,500	65,000	87,000	83,300
Arkansas.....	60,000	58,000	S	S	58,000	60,000	57,100	S	S	86,000
Louisiana.....	65,800	63,000	S	55,000	68,000	71,200	66,000	60,000	84,400	69,000
Oklahoma.....	63,000	62,000	S	S	60,000	63,000	63,000	65,000	65,000	68,000
Texas.....	78,500	70,500	85,000	61,500	65,000	79,500	63,000	70,000	90,000	90,000
Mountain.....	72,000	65,000	82,000	60,000	58,000	80,000	58,000	57,000	90,000	78,000
Arizona.....	70,000	62,500	85,000	S	54,000	77,500	55,000	77,000	82,000	67,000
Colorado.....	71,000	64,000	90,000	55,000	59,000	77,000	60,000	54,000	90,000	83,000
Idaho.....	62,000	51,000	S	S	45,000	58,000	S	S	89,000	100,000
Montana.....	54,000	51,000	S	S	56,000	S	S	S	S	79,000
New Mexico.....	89,000	80,000	75,000	88,000	68,600	90,000	50,000	57,700	96,000	91,200
Nevada.....	80,000	78,000	S	55,000	S	84,000	S	S	89,000	92,000
Utah.....	65,000	60,000	68,600	S	58,000	64,000	60,000	53,000	88,000	65,000
Wyoming.....	61,000	61,000	S	S	53,000	S	S	S	S	S
Pacific.....	85,000	76,000	97,000	68,000	70,000	84,400	68,300	66,000	94,000	102,000
Alaska.....	67,000	61,000	S	S	56,000	70,000	S	S	S	82,600
California.....	90,000	80,000	100,000	68,000	74,000	90,000	75,000	70,000	98,000	115,000
Hawaii.....	66,000	65,000	S	S	65,000	69,000	59,000	64,700	S	80,000
Oregon.....	70,000	65,100	82,000	77,000	63,000	70,000	62,000	52,000	79,000	68,000
Washington.....	70,400	63,000	80,000	65,000	60,000	67,300	53,000	60,000	80,000	85,000
Puerto Rico.....	53,300	49,200	S	S	48,000	S	S	S	S	66,000
Other U.S. territories and other areas.....	75,000	S	S	S	S	S	S	S	S	S

KEY: S=Suppressed due to too few cases (fewer than 200 weighted cases).

NOTES: Since the survey sample design does not include geography, the reliability of estimates in some states may be poor due to small sample size.
Salaries are rounded to nearest hundred.

SOURCE: National Science Foundation/Division of Science Resources Statistics, 2001 Survey of Doctorate Recipients